Summary of British Columbia Herring Sampling Data for the 1985-86 Season

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ABSTRACT

Rosenfeld, L. and V. Haist. 1986. Summary of British Columbia herring sampling data for the 1985-86 season. Can. Data Rep. Fish. Aquat. Sci. 619: 125 p.

Age compositions and the average length and weight at age, the sex ratio, and the maturity stages of herring samples combined by geographical area, time period, gear type, and source are tabulated for the 1985-86 season. Tables are given for two geographical groupings: statistical areas and sections.

Key words: Clupea harengus pallasi

RESUME

Rosenfeld, L. and V. Haist. 1986. Summary of British Columbia herring sampling data for the 1985-86 season. Can. Data Rep. Fish. Aquat. Sci. 619: 125 p.

Pour les échantillons de hareng recueillis au cours de la saison de pêche de 1985-1986, on présente des tableaux de données sur les compositions par âge, la longueur et le poids moyens selon l'âge, la proportion des sexes et les stades de maturité en fonction des zones géographiques, de la période, du type d'engin et de la source des données. Les tableaux sont fonction de deux groupements géographiques: districts et zones statistiques.

Mot-clé: Clupea harengus pallasi

INTRODUCTION

Biological samples of herring are collected and sampled annually for length, weight, sex, maturity, age, and gonad weight. This information is used in stock assessments, determining stock characteristics, and by fishery managers in the field. This report summarizes biological characteristics by geographical groupings, time periods, gear and source types. Individual fish records since the 1950-51 season are maintained on computer files.

METHODS

COLLECTION AND PROCESSING OF SAMPLES

Samples are collected from a variety of sources with the majority obtained from pre-fishery charters, commercial catches, and research cruises. For the 1986 herring roe fishery eleven charter vessels were used to assess all major stocks by echo sounding and catch sampling (Armstrong 1986). Charter timing was set to ensure that the charter vessels were available prior to and during major spawnings in each area. Samples from the test fishery are collected by the D.F.O. representatives onboard the charter vessel.

The 1986 commercial roe herring fisheries occurred in the Queen Charlotte Islands, Prince Rupert District, and Central Coast regions between March 23 and April 13. The design of the catch sampling program is to obtain 10 samples from each seine roe fishery and six samples from each gillnet roe fishery. Samples were collected from landings made to processors at Prince Rupert and Vancouver according to fishery-specific sampling plans. The sampling plan was designed to ensure that the sample series represented the catch in terms of time and space. Sampling plans for 1986 fisheries were designed primarily to account for spatial distribution of catches; openings were of such short duration (less than a day) that temporal considerations in sampling plans were not critical (Sager, J.E. and Associates, 1986).

The G.B. REED conducted two research cruises in the 1985-86 season. During the first cruise Hecate Strait and Chatham Sound were surveyed (July 22-August 8, 1985) to examine summer feeding distributions of Pacific herring. On the second cruise (November 26-December 12, 1985), a hydroacoustic survey of Juan Perez Sound and Hecate Strait, the G.B. REED was accompanied by the F/V SUNNFJORD which conducted midwater trawls to determine species composition and obtain biological samples of observed schools. Other research samples were obtained from the seiner WALKER ROCK, which conducts annual fall hydroacoustic surveys in the lower Strait of Georgia.

All biological samples are frozen on board vessels or at district

offices and shipped to the Pacific Biological Station where they are processed following standard procedures described by Hourston and Miller (1980).

DATA COMPILATION AND SCREENING

The recorded data are entered onto computer tapes. The data are screened by computer for relationships between age, length, and weight which are outside the normal range for the coast as a whole (mean +/- 2 standard deviations). Anomalies are listed and the associated data checked for possible errors in recording or coding.

RESULTS

Pre-fishery charter vessels made 372 sets which resulted in 264 processed biological samples (Table 1). A total of 88 samples were collected from 9 commercial gillnet and seine roe herring fisheries in 1986. Locations and dates of roe fisheries, hailed catches, and number of samples are summarized in Table 2. The summer cruise of the G.B. REED provided two samples, and the F/V SUNNFJORD obtained 17 samples. Nine research samples were obtained by the WALKER ROCK.

Sample information is listed for each sample by section and gear in Table 3. Gear, source, and preservative codes are listed in Table 4; location codes are documented in Hourston and Hamer (1979). The data summary reports include various groupings of samples by geographical area, time period, gear type, and source (Tables 7-15). The two levels of geographical aggregation used are sections (Figs. 1, 2) and statistical areas (Figs. 3, 4). The time periods used are weeks (Table 5) and season. Each summary contains information on the age composition, the average length and weight at age, the sex ratio, and the maturity stages of the combined samples in that report. Female roe maturity is defined as:

immature - Hjort stages 1-4 (Table 6)
mature - Hjort stages 5-6 (Table 6)
spent - Hjort stages 7-8 (Table 6)

Fish classified as immature in estimating the sex ratio are those whose gonads are not sufficiently developed for determining their sex.

ACKNOWLEDGMENTS

We thank Margaret Burke and Karen Charles of the Fish Ageing Unit for determining fish ages. Unicore Services Ltd. collected the samples and Environcon Ltd. processed them.

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Table 1. 1986 Roe herring charter vessels by location and duration, and biological samples by charter vessel.

Location	Vessel	Duration	No. of samples processed
Queen Charlotte Islands	CHRISTAV	Mar. 4-Apr. 1	27
	VENTUROUS	Mar. 1-Mar. 26	16
Prince Rupert District	ARGENT FISHER[a]	Mar. 20-Apr. 6	19
	KARENORA II	Mar. 13-Apr. 12	23
Central Coast	FISHER LASSIE II	Mar. 1-Apr. 6[b]	32
	MARINE STAR	Mar. 6-Apr. 1	20
Strait of Georgia	ARGENT FISHER[a]	Feb. 20-Mar. 4	18
	SEMIDI	Mar. 1-Mar. 26	22
	WESTVIEW NO. 1	Feb. 20-Mar. 17	37
West Coast Vancouver Island	C VENTURE NO. 1	Feb. 20-Mar. 19	9
	ELLING K	Feb. 20-Mar. 19	10
	PACIFIC HARVESTER	Feb. 20-Mar. 22	31
Total			264

[a]Split charter
[b]Break in charter

Table 2. Summary of 1986 roe herring fisheries.

District	Gear	Management areas	Date	Time	Hailed catch		No. of samples
					Tons	(Tonnes)	
Queen Charlotte Islands	GN	2-12,-13	07/04/86	1300-2115	924	(838)	7
	SN	2-15	23/03/86	0947-1336,1846-1909	3143	(2851)	17
Prince Rupert District	GN	4-5,-6,-7,-8,-9,-14	12/04/86	0830-2000	4150	(3764)	10
	GN	4-5,-6,-7,-8,-9,-14	13/04/86	0930-1015	860	(780)	6
	SN	5-4,-5	02/04/86	1005-1407	1650	(1496)	10
	SN	5-4	04/04/86	0917-1033	1956	(1774)	10
Central Coast	GN	6-18, 7-9,-13,-14,19	05/04/86	0800-1630	1096	(994)	15
	SN	7-3	29/03/86	0916-1348	2112	(1916)	13

TABLE 3. 1985 - 1986 SAMPLE INFORMATION BY SECTION AND GEAR

SECTION	GEAR	MONTH	DAY	LOCATION	SOURCE	PRESERVATIVE	SAMPLE NUMBER	NUMBER OF FISH SAMPLED	NUMBER OF FISH AGED
2	29	3	3	60	5	0	275	62	58
	29	3	5	60	5	0	271	74	69
	29	3	5	60	5	0	274	57	56
5	29	3	11	80	5	0	345	97	92
	29	3	12	80	5	0	314	100	91
6	29	3	14	76	5	0	306	100	97
11	59	1	5	51	6	0	103	100	89
	59	7	29	58	2	0	47	100	69
	59	12	16	51	6	0	23	75	44
21	59	11	29	142	2	0	30	100	82
22	29	3	20	108	5	0	318	100	89
	29	5	8	99	1	0	361	100	95
24	29	3	6	133	5	0	290	100	91
	29	3	11	143	5	0	278	100	90
	29	3	11	143	5	0	344	100	94
	29	3	15	1592	5	0	326	99	92
	29	3	16	143	5	0	328	100	93
	29	3	16	1592	5	0	316	84	79
	29	3	17	143	5	0	336	100	94
	29	3	25	1592	5	0	311	100	94
	29	3	25	1592	5	0	325	100	85
	29	3	26	143	5	0	292	100	95
	29	3	26	1592	5	0	312	97	87
	29	3	26	1592	5	0	315	100	92
	29	3	28	141	5	0	240	100	85
	29	3	29	1739	5	0	245	100	94
	29	3	30	141	5	0	319	100	86
	29	3	31	1592	5	0	340	100	95
	59	11	27	145	2	0	28	100	92
	59	11	28	145	2	0	29	100	85
	59	11	29	145	2	0	31	100	63
25	19	4	7	1552	0	0	213	100	48
	19	4	7	1552	0	0	217	100	35
	19	4	7	1552	0	0	219	100	67
	19	4	7	1552	0	0	251	100	75
	19	4	7	1552	0	0	329	100	71
	19	4	7	1552	0	0	359	100	55
	19	4	7	1553	0	0	241	100	54
	29	3	4	165	5	0	300	100	97
	29	3	5	169	5	0	323	92	82
	29	3	10	167	5	0	346	99	92
	29	3	12	165	5	0	341	100	92
	29	3	14	185	5	0	302	83	77
	29	3	16	164	5	0	303	100	94
	29	3	16	1425	5	0	322	100	96
	29	3	18	165	5	0	313	100	97
	29	3	18	167	5	0	334	100	94
	29	3	18	185	5	0	307	100	94

TABLE 3 (CONT.) 1985 - 1986 SAMPLE INFORMATION BY SECTION AND GEAR

SECTION	GEAR	MONTH	DAY	LOCATION	SOURCE	PRESERVATIVE	SAMPLE NUMBER	NUMBER OF FISH SAMPLED	NUMBER OF FISH AGED
25	29	3	19	1425	5	0	320	100	96
	29	3	20	185	5	0	305	100	89
	29	3	21	185	5	0	327	100	100
	29	3	21	1425	5	0	304	100	95
	29	3	22	167	5	0	308	100	92
	29	3	22	186	5	0	309	100	92
	29	3	23	167	0	0	174	100	90
	29	3	23	167	0	0	175	99	93
	29	3	23	167	0	0	184	100	79
	29	3	23	167	0	0	200	100	92
	29	3	23	167	0	0	235	100	92
	29	3	23	167	0	0	239	91	83
	29	3	23	167	0	0	242	100	91
	29	3	23	167	0	0	258	100	86
	29	3	23	167	0	0	268	100	91
	29	3	23	182	0	0	179	100	85
	29	3	23	182	0	0	186	100	80
	29	3	23	182	0	0	189	100	91
	29	3	23	182	0	0	192	100	91
	29	3	23	182	0	0	265	100	81
	29	3	23	182	0	0	276	100	64
	29	3	23	182	0	0	282	100	61
	29	3	23	182	0	0	289	98	82
	29	3	23	182	5	0	301	100	91
	29	3	24	165	5	0	317	100	93
	29	3	25	165	5	0	324	100	88
	29	3	31	167	5	0	280	100	94
	59	8	3	2025	2	0	41	86	76
32	29	3	14	198	5	0	220	100	86
	29	3	14	1637	5	0	215	100	98
	29	3	20	194	5	0	224	100	90
	29	3	22	198	5	0	230	100	91
33	29	3	15	1710	5	0	287	100	87
	29	3	20	1710	5	0	226	100	93
	29	3	20	1710	5	0	233	100	92
	29	3	21	1710	5	0	335	100	91
	29	3	23	211	5	0	294	100	94
	29	3	24	211	5	0	299	100	91
	29	3	26	211	5	0	295	100	94
	29	3	26	213	5	0	284	100	90
	29	3	28	211	5	0	207	100	94
	29	3	28	213	5	0	211	100	93
	29	3	31	211	5	0	231	100	93

TABLE 3 (CONT.) 1985 - 1986 SAMPLE INFORMATION BY SECTION AND GEAR

SECTION	GEAR	MONTH	DAY	LOCATION	SOURCE	PRESERVATIVE	SAMPLE NUMBER	NUMBER OF FISH SAMPLED	NUMBER OF FISH AGED
42	19	3	31	260	5	0	321	100	92
	19	4	12	260	0	0	248	100	72
	19	4	12	260	0	0	330	100	74
	19	4	12	276	0	0	237	100	90
	19	4	12	276	0	0	250	99	83
	19	4	12	276	0	0	310	100	71
	19	4	12	1747	0	0	246	100	77
	19	4	12	1747	0	0	254	100	46
	19	4	12	1747	0	0	256	100	86
	19	4	12	1747	0	0	269	100	80
	19	4	12	1747	0	0	270	100	83
	19	4	13	261	0	0	262	100	90
	19	4	13	261	0	0	286	100	86
	19	4	13	261	0	0	288	100	82
	19	4	13	276	0	0	252	100	84
	19	4	13	276	0	0	253	100	82
	19	4	13	1747	0	0	247	100	88
	29	3	24	266	5	0	283	100	85
	29	3	26	266	5	0	249	100	87
	29	3	26	266	5	0	273	100	94
	29	3	27	266	5	0	210	100	93
	29	3	27	266	5	0	223	100	94
	29	3	29	260	5	0	212	100	93
43	29	4	8	288	5	0	281	100	93
	29	4	8	1403	5	0	277	100	85
	59	12	5	271	2	0	36	100	86
52	29	3	18	358	5	0	244	100	87
	29	3	21	342	5	0	216	100	93
	29	3	25	342	5	0	232	100	93
	29	3	26	342	5	0	205	100	89
	29	3	26	358	5	0	208	100	88
	29	3	27	342	5	0	333	100	95
	29	3	28	357	5	0	206	100	97
	29	3	29	354	5	0	228	100	95
	29	3	29	357	5	0	209	100	90
	29	3	30	1476	5	0	225	100	96
	29	3	31	350	5	0	222	100	89
	29	3	31	353	5	0	227	100	90
	29	4	2	354	5	0	221	100	92
	29	4	2	357	0	0	173	100	94
	29	4	2	357	0	0	185	100	90
	29	4	2	357	0	0	190	100	86
	29	4	2	357	0	0	199	100	91
	29	4	2	357	0	0	201	100	88
	29	4	2	357	0	0	260	100	84
	29	4	2	357	0	0	261	100	94
	29	4	2	357	0	0	266	100	94
	29	4	2	357	0	0	342	100	96
	29	4	2	357	0	0	360	100	91

TABLE 3 (CONT.) 1985 - 1986 SAMPLE INFORMATION BY SECTION AND GEAR

SECTION	GEAR	MONTH	DAY	LOCATION	SOURCE	PRESERVATIVE	SAMPLE NUMBER	NUMBER OF FISH SAMPLED	NUMBER OF FISH AGED
52	29	4	4	357	0	0	177	100	91
	29	4	4	357	0	0	180	100	93
	29	4	4	357	0	0	183	100	89
	29	4	4	357	0	0	191	100	90
	29	4	4	357	0	0	194	100	93
	29	4	4	357	0	0	196	100	95
	29	4	4	357	0	0	198	100	88
	29	4	4	357	0	0	202	100	90
	29	4	4	357	5	0	218	100	95
	29	4	4	357	0	0	236	100	93
	29	4	4	357	0	0	351	100	87
	29	4	5	341	5	0	353	100	89
	29	4	7	357	5	0	234	100	86
	29	4	7	357	5	0	264	97	92
	29	4	11	342	5	0	204	100	89
	29	4	11	342	5	0	229	100	92
	59	11	19	2052	6	0	24	100	86
	59	11	19	2052	6	0	26	100	90
	59	11	20	2052	6	0	20	100	85
	59	11	20	2052	6	0	21	100	94
	59	12	1	338	2	0	22	100	87
	59	12	1	338	2	0	44	100	87
	59	12	2	338	2	0	32	100	90
	59	12	3	338	2	0	33	100	93
	59	12	3	338	2	0	34	100	81
	59	12	3	338	2	0	35	100	79
	59	12	6	338	2	0	37	100	96
	59	12	6	338	2	0	45	99	94
	59	12	6	338	2	0	46	100	92
	59	12	8	338	6	0	19	58	55
	59	12	8	338	2	0	38	100	75
	59	12	9	338	2	0	39	100	93
	59	12	9	338	2	0	40	100	93
	59	12	10	336	6	0	42	100	95
	59	12	10	338	6	0	43	100	91
	59	12	11	336	6	0	27	100	96
	59	12	12	340	6	0	25	79	76
67	19	4	5	426	0	0	182	100	73
	19	4	5	426	0	0	193	100	81
	19	4	5	426	0	0	197	100	89
	19	4	5	426	0	0	214	100	74
	19	4	5	426	0	0	255	100	75
	19	4	5	426	0	0	257	100	74
	29	3	4	426	5	0	146	100	91
	29	3	8	431	5	0	150	93	85
	29	3	9	425	5	0	172	100	96
	29	3	10	433	5	0	167	99	92
	29	3	16	430	5	0	149	98	95
	29	3	16	430	5	0	164	100	89

TABLE 3 (CONT.) 1985 - 1986 SAMPLE INFORMATION BY SECTION AND GEAR

SECTION	GEAR	MONTH	DAY	LOCATION	SOURCE	PRESERVATIVE	SAMPLE NUMBER	NUMBER OF FISH SAMPLED	NUMBER OF FISH AGED
67	29	3	26	425	4	0	161	100	91
	29	3	28	431	5	0	127	78	75
	29	4	2	426	4	0	151	100	85
71	19	4	5	457	0	0	272	100	74
	19	4	5	457	0	0	293	100	84
	19	4	5	457	0	0	296	100	56
	19	4	5	457	0	0	298	100	74
	19	4	5	457	0	0	331	100	65
	29	3	12	1748	5	0	131	100	96
	29	3	15	440	5	0	154	100	96
	29	3	15	1748	5	0	153	100	93
	29	3	18	1748	5	0	160	100	97
	29	3	21	527	5	0	169	100	92
	29	3	21	1748	5	0	128	100	94
	29	3	22	457	5	0	145	100	96
	29	3	23	1748	5	0	171	92	89
	29	3	26	1748	5	0	141	100	92
	29	3	27	1748	5	0	132	100	93
	29	3	28	1748	5	0	137	100	94
	29	3	28	1748	5	0	143	100	97
	29	3	28	1748	5	0	354	100	90
	29	3	29	1748	0	0	176	100	90
	29	3	29	1748	0	0	178	100	95
	29	3	29	1748	0	0	181	100	93
	29	3	29	1748	0	0	187	100	92
	29	3	29	1748	0	0	188	100	93
	29	3	29	1748	0	0	195	100	95
	29	3	29	1748	0	0	203	100	84
	29	3	29	1748	0	0	259	100	71
	29	3	29	1748	0	0	263	100	91
	29	3	29	1748	0	0	267	100	91
	29	3	29	1748	0	0	285	100	90
	29	3	29	1748	0	0	297	100	90
	29	3	29	1748	0	0	332	100	89
	29	3	30	1748	5	0	136	100	95
72	19	4	5	480	0	0	343	100	49
	29	3	15	471	5	0	126	100	88
	29	3	20	480	5	0	158	100	94
	29	3	23	529	5	0	166	100	94
	29	3	26	480	5	0	147	100	95
	29	3	30	480	5	0	152	100	94
74	19	4	5	538	0	0	243	100	76
	19	4	5	538	0	0	279	100	64
	19	4	5	538	0	0	291	92	61
	29	3	1	482	5	0	129	100	92
	29	3	1	537	5	0	125	100	85
	29	3	2	539	5	0	130	78	64
	29	3	3	538	5	0	162	100	94

TABLE 3 (CONT.) 1985 - 1986 SAMPLE INFORMATION BY SECTION AND GEAR

SECTION	GEAR	MONTH	DAY	LOCATION	SOURCE	PRESERVATIVE	SAMPLE NUMBER	NUMBER OF FISH SAMPLED	NUMBER OF FISH AGED
74	29	3	7	482	5	0	138	100	94
	29	3	8	537	5	0	168	85	74
	29	3	9	539	5	0	140	100	92
	29	3	10	482	5	0	159	100	94
	29	3	13	542	5	0	142	95	90
	29	3	14	539	5	0	339	100	92
	29	3	15	482	5	0	148	100	92
	29	3	15	482	5	0	356	100	96
	29	3	19	482	5	0	165	100	96
	29	3	20	542	5	0	156	100	91
	29	3	22	483	5	0	144	100	93
	29	3	24	538	5	0	170	100	92
	29	3	24	542	5	0	157	100	92
	29	3	25	483	5	0	163	100	92
	29	3	30	538	5	0	139	100	88
	29	3	30	542	5	0	348	100	86
76	29	3	7	556	5	0	155	100	96
	29	4	2	548	5	0	347	100	92
	29	4	3	497	5	0	135	100	90
85	29	3	17	602	5	0	349	99	90
	29	3	23	602	5	0	133	100	93
	29	4	3	602	5	0	134	100	95
123	29	3	21	693	5	0	105	100	97
126	29	3	18	757	5	0	104	100	93
131	29	12	10	773	6	0	15	100	92
	29	12	11	773	6	0	16	100	94
132	29	2	4	766	2	0	60	100	91
	29	12	9	766	6	0	10	100	86
136	29	2	25	1674	5	0	358	100	91
	29	3	12	1674	5	0	101	100	89
137	29	2	25	805	5	0	72	100	88
	29	2	26	806	5	0	55	99	84
	29	3	4	806	5	0	45	100	85
	29	3	13	803	5	0	107	100	92
142	29	2	27	811	5	0	48	100	89
	29	2	27	811	5	0	58	99	88
	29	2	28	837	5	0	88	100	91
	29	3	1	819	5	0	53	100	92
	29	3	1	1713	5	0	69	100	91
	29	3	2	838	5	0	99	100	92
	29	3	3	812	5	0	64	100	92
	29	3	3	818	5	0	91	100	90
	29	3	3	1680	5	0	98	100	89
	29	3	5	818	5	0	19	100	90
	29	3	5	1621	5	0	21	100	91
	29	3	6	818	5	0	6	100	80
	29	3	6	830	5	0	16	100	90
	29	3	6	830	5	0	22	100	90

TABLE 3 (CONT.) 1985 - 1986 SAMPLE INFORMATION BY SECTION AND GEAR

SECTION	GEAR	MONTH	DAY	LOCATION	SOURCE	PRESERVATIVE	SAMPLE NUMBER	NUMBER OF FISH SAMPLED	NUMBER OF FISH AGED
142	29	3	7	830	5	0	4	100	91
	29	3	7	1621	5	0	1	100	89
	29	3	8	830	5	0	57	100	85
	29	3	8	842	5	0	59	100	93
	29	3	8	843	5	0	10	99	95
	29	3	8	1519	5	0	32	100	92
	29	3	9	1519	5	0	2	100	89
	29	3	9	1519	5	0	9	100	87
	29	3	9	1519	5	0	33	100	86
	29	3	10	1484	5	0	3	100	88
	29	3	10	1519	5	0	8	100	94
	29	3	15	811	5	0	109	100	90
	29	3	24	1519	5	0	102	100	89
	29	3	24	1519	5	0	108	100	93
	29	3	24	1519	5	0	116	100	88
144	29	2	21	823	5	0	120	100	86
	29	12	11	824	2	0	13	100	87
152	29	2	24	1631	5	0	54	78	73
	29	3	3	1631	5	0	63	100	96
	29	3	5	858	5	0	38	100	89
	29	3	16	854	5	0	106	100	92
162	29	2	22	909	5	0	80	100	87
	29	2	22	909	5	0	357	100	95
	29	2	26	910	5	0	56	100	90
	29	2	27	904	5	0	122	98	92
	29	3	2	904	5	0	35	100	68
	29	3	2	910	5	0	81	100	97
	29	3	4	909	5	0	66	100	95
	29	3	4	910	5	0	62	100	92
163	29	2	22	872	5	0	355	99	90
171	29	2	22	942	5	0	94	96	82
	29	2	23	942	5	0	74	99	93
	29	2	25	939	5	0	350	100	84
	29	3	2	942	5	0	117	100	90
	29	3	5	942	5	0	27	100	91
	29	3	7	942	2	0	39	100	91
	29	3	13	942	5	0	13	100	88
	29	10	27	942	6	0	7	100	79
	29	10	27	942	6	0	8	100	80
	29	11	6	942	2	0	11	100	86
	29	11	11	938	6	0	12	100	91

TABLE 3 (CONT.) 1985 - 1986 SAMPLE INFORMATION BY SECTION AND GEAR

SECTION	GEAR	MONTH	DAY	LOCATION	SOURCE	PRESERVATIVE	SAMPLE NUMBER	NUMBER OF FISH SAMPLED	NUMBER OF FISH AGED
171	29	11	11	942	2	0	17	100	92
	29	11	18	991	6	0	5	100	90
	29	12	8	938	2	0	3	100	89
172	29	2	21	995	5	0	114	100	84
	29	2	24	917	5	0	51	100	89
	29	2	27	996	5	0	352	100	93
	29	3	1	917	5	0	89	100	87
	29	3	5	917	5	0	41	100	85
	29	3	9	917	2	0	15	100	87
	29	3	11	926	5	0	12	100	91
	29	3	15	995	5	0	14	100	85
	29	3	16	995	5	0	26	100	93
173	29	2	22	943	5	0	71	100	92
	29	2	22	960	5	0	338	99	91
	29	2	25	959	5	0	73	100	95
	29	2	27	955	5	0	337	99	92
	29	3	10	978	2	0	5	100	89
	29	3	12	959	5	0	11	100	88
	29	3	12	959	5	0	115	100	88
	29	3	14	943	5	0	7	100	89
	29	3	15	978	5	0	25	100	90
	29	10	16	961	6	0	1	100	91
	29	10	16	961	6	0	2	100	93
	29	10	17	978	2	0	18	100	87
181	29	2	22	1008	5	0	113	100	89
	29	2	26	1043	5	0	238	100	91
	29	11	7	1047	2	0	14	100	86
	29	12	5	1008	6	0	4	100	83
	29	12	6	1008	6	0	9	100	88
	29	12	6	1047	6	0	6	100	82
182	29	3	3	1052	5	0	28	100	84
185	29	2	23	1029	5	0	52	100	92
231	29	2	26	1138	5	0	96	100	93
	29	3	3	1138	5	0	65	100	95
	29	3	6	1138	5	0	118	100	87
232	29	2	27	1145	5	0	75	100	91
	29	3	1	1549	5	0	93	100	93
	29	3	2	1145	5	0	79	100	92
	29	3	2	1145	5	0	95	100	89
	29	3	4	1159	5	0	97	100	93
	29	3	4	1549	5	0	67	100	97
	29	3	4	1755	5	0	84	100	93
	29	3	5	1145	5	0	78	100	88
	29	3	5	1659	5	0	40	100	93
	29	3	6	1549	5	0	20	100	88
	29	3	6	1549	5	0	30	100	86
	29	3	8	1659	5	0	29	100	86
	29	3	8	1755	5	0	18	100	85
	29	3	9	1145	5	0	31	100	90

TABLE 3 (CONT.) 1985 - 1986 SAMPLE INFORMATION BY SECTION AND GEAR

SECTION	GEAR	MONTH	DAY	LOCATION	SOURCE	PRESERVATIVE	SAMPLE NUMBER	NUMBER OF FISH SAMPLED	NUMBER OF FISH AGED
232	29	3	9	1159	5	0	23	100	90
	29	3	9	1549	5	0	37	100	93
	29	3	10	1132	5	0	123	100	88
	29	3	10	1142	5	0	124	100	94
	29	3	11	1159	5	0	17	100	92
	29	3	14	1145	5	0	86	100	91
	29	3	14	1145	5	0	87	100	92
	29	3	14	1755	5	0	85	100	93
	29	3	15	1549	5	0	90	100	96
	29	3	18	1142	5	0	68	100	91
	29	3	18	1145	5	0	83	100	87
233	29	2	28	1141	5	0	61	100	68
	29	2	28	1158	5	0	70	100	91
	29	3	2	1158	5	0	100	58	52
	29	3	10	1141	5	0	24	100	90
242	29	3	2	1217	5	0	82	100	95
243	29	3	13	1206	5	0	110	100	93
	29	3	17	1206	5	0	121	100	92
252	29	2	22	1278	5	0	77	100	96
	29	2	25	1278	5	0	76	100	94
	29	3	2	1278	5	0	36	100	94
	29	3	7	1277	5	0	112	100	96
253	29	2	24	1255	5	0	92	100	92
	29	2	28	1397	5	0	44	100	92
	29	3	1	1273	5	0	49	100	93
	29	3	3	1255	5	0	47	100	88
	29	3	8	1255	5	0	111	100	94
	29	3	8	1255	5	0	119	100	92
	29	3	17	1255	5	0	43	100	93
261	29	3	12	1299	5	0	34	100	94
272	29	3	6	1311	5	0	50	99	86
	29	3	9	1311	5	0	46	100	89
273	29	3	6	1319	5	0	42	100	96

Table 4 Codings for British Columbia herring sampling data

A.	Gear	B.	Source
19	Gillnet	0	Roe fishery
29	Herring seine	1	Bait fishery
20	Salmon seine	2	Research - inshore
21	Other seine	3	Research - offshore
70	Beach seine	4	Other
50	Other trawl	5	Pre-fishery charter
59	Herring trawl	6	Food
01	Other		

C.	Preservative
0	Freeze
1	None (fresh)
2	Salt
3	Other
4	Brine

Table 5. Week numbers for Pacific herring data for the 1985-86 season.

Week number	Duration	Week number	Duration
1	July 1-6	27	Dec. 29-Jan. 4
2	July 7-13	28	Jan. 5-11
3	July 14-20	29	Jan. 12-18
4	July 21-27	30	Jan. 19-25
5	July 28-Aug. 3	31	Jan. 26-Feb. 1
6	Aug. 4-10	32	Feb. 2-8
7	Aug. 11-17	33	Feb. 9-15
8	Aug. 18-24	34	Feb. 16-22
9	Aug. 25-31	35	Feb. 23-Mar. 1
10	Sept. 1-7	36	Mar. 2-8
11	Sept. 8-14	37	Mar. 9-15
12	Sept. 15-21	38	Mar. 16-22
13	Sept. 22-28	39	Mar. 23-29
14	Sept. 29-Oct. 5	40	Mar. 30-Apr. 5
15	Oct. 6-12	41	Apr. 6-12
16	Oct. 13-19	42	Apr. 13-19
17	Oct. 20-26	43	Apr. 20-26
18	Oct. 27-Nov. 2	44	Apr. 27-May 3
19	Nov. 3-9	45	May 4-10
20	Nov. 10-16	46	May 11-17
21	Nov. 17-23	47	May 18-24
22	Nov. 24-30	48	May 25-31
23	Dec. 1-7	49	Jun. 1-7
24	Dec. 8-14	50	Jun. 8-14
25	Dec. 15-21	51	Jun. 15-21
26	Dec. 22-28	52	Jun. 22-28
		53	Jun. 29-30

Table 6. Maturity stages for Pacific herring. The descriptions of each stage are adapted from criteria developed for Atlantic herring (Bowers and Holliday 1961; Parrish and Saville 1965) and modified to suit the unique characteristics of Pacific herring which are exclusively winter-spring spawners.

Stage	State of maturity	Gonad appearance	Description	Timing
I.	Undeveloped	Thread-shaped	Virgin herring with small gonads, less than 2 mm broad. Accurate macroscopic determination of sex usually not possible	Year-round for young herring usually less than 150 mm in standard length.
II.	Starting	Ribbon-shaped	Gonads increased in breadth to 3-5 mm. Sex determination possible. Testes reddish-gray colored and knife-shaped; ovaries reddish-wine colored and rounder. (The gonads of virgins and some repeat spawners cannot be differentiated macroscopically.)	Late spring and early summer.
III.	Developing	Tube-like	Gonads thickened, increased in breadth (5-15 mm) and elongated, but not extending full length of body cavity. Ovaries red to reddish-orange with granular appearance; testes reddish-gray with smooth texture.	Late summer and early fall.
IV.	Maturing	Prominent	Gonads extend full length of body cavity. Ovaries reddish-orange to yellow; eggs distinguishable, opaque, variable in size and separable. Testes mostly grey and will ooze milt if sliced with a knife. Blood vessels clearly visible in the ovary and testes walls.	Late fall and early winter (slightly earlier in males than females).

Table 6 (cont'd)

Stage	State of maturity	Gonad appearance	Description	Timing
V.	Mature	Bulging	No blood vessels visible in gonad walls. Ovaries gold-yellow; eggs mostly transparent and uniform in size. Eggs can be exuded from the ovary under pressure and are adhesive on contact. Testes milk-white; sperm will flow under pressure.	Early winter for males, late winter for females.
VI.	Ripe	Running	Eggs transparent. Eggs and sperm flow easily without external pressure.	A few days prior to spawning (usually in late winter or early spring).
VII.	Spent	Baggy	Gonads slack. Ovaries may contain a few residual eggs. Testes limp and bloodshot.	Early spring for the first few weeks following spawning.
VIII.	Recovering	Compressed	Gonads wine-colored and usually longer and thicker than in Stage II. Blood vessels prominent. (This stage passes into Stage III, but may resemble Stage II in the process.)	Late spring and early summer.

TABLE 7 TRAWL RESEARCH SAMPLE SUMMARIES BY SECTION AND WEEK

SECTION: 11 - OTHER AREA 1
SAMPLE NUMBERS: 47
SOURCE: RESEARCH - INSHORE
GEAR: HERRING TRAWL
WEEK: 5 DATE: JUL 29/85

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	7	10	31	9	7	1	1	0	31	100
% AT AGE	0.00	0.00	10.14	14.49	49.28	13.04	10.14	1.45	1.45	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	177.29	196.70	203.00	208.89	206.29	212.00	252.00	0.00	199.03	200.68
- STD. DEV.	0.00	0.00	8.44	4.76	7.06	18.13	16.22	0.00	0.00	0.00	21.71	16.96
WEIGHT - MEAN(gm)	0.00	0.00	83.57	118.10	133.18	149.56	130.57	146.00	234.00	0.00	122.97	127.46
- STD. DEV.	0.00	0.00	13.26	14.17	12.70	37.10	38.89	0.00	0.00	0.00	38.66	32.62

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	13	0	0	0	0	41	0	46
% AT STAGE	0.00	13.00	0.00	0.00	0.00	0.00	41.00	0.00	46.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	7	0	16	23
%	30.43	0.00	69.57	100.00
% SAMPLE WEIGHT	0.00	0.00	0.00	0.00

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	30	23	47	100
%	30.00	23.00	47.00	100.00
MEAN WEIGHT	138.97	133.70	117.06	127.46
% SAMP. WT.	32.71	24.13	43.17	100.00

TABLE 7 (CONT.) TRAWL RESEARCH SAMPLE SUMMARIES BY SECTION AND WEEK

SECTION: 21 - OTHER AREA 2E
SAMPLE NUMBERS: 30
SOURCE: RESEARCH - INSHORE
GEAR: HERRING TRAWL
WEEK: 22 DATE: NOV 29/85

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	3	9	36	1	2	10	20	1	18	100
% AT AGE	0.00	0.00	3.66	10.98	43.90	1.22	2.44	12.20	24.39	1.22	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	191.00	203.89	214.08	218.00	231.50	226.10	233.70	235.00	213.89	218.16
- STD. DEV.	0.00	0.00	4.58	7.94	8.65	0.00	6.36	8.96	9.87	0.00	16.73	14.77
WEIGHT - MEAN(gm)	0.00	0.00	107.00	126.44	152.08	149.00	190.50	180.30	201.85	198.00	151.28	162.25
- STD. DEV.	0.00	0.00	8.19	14.20	19.57	0.00	13.44	24.84	29.58	0.00	35.51	35.28

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	13	84	3	0	0	0	0
% AT STAGE	0.00	0.00	13.00	84.00	3.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	42	0	0	42
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	7.40	0.00	0.00	7.40

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	58	42	0	100
%	58.00	42.00	0.00	100.00
MEAN WEIGHT	159.55	165.98	0.00	162.25
% SAMP. WT.	57.04	42.96	0.00	100.00

TABLE 7 (CONT.) TRAWL RESEARCH SAMPLE SUMMARIES BY SECTION AND WEEK

SECTION: 24 - LASKEEK BAY
SAMPLE NUMBERS: 31, 29, 28
SOURCE: RESEARCH - INSHORE
GEAR: HERRING TRAWL
WEEK: 22 DATE: NOV 27/85 - NOV 29/85

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	1	6	25	85	27	29	26	37	4	60	300
% AT AGE	0.00	0.42	2.50	10.42	35.42	11.25	12.08	10.83	15.42	1.67	0.00	100.00
LENGTH - MEAN(mm)	0.00	171.00	186.00	204.72	211.74	219.67	228.34	231.00	233.19	245.00	218.53	218.94
- STD. DEV.	0.00	0.00	4.82	8.88	10.27	10.93	13.60	9.13	9.98	14.38	12.51	15.25
WEIGHT - MEAN(gm)	0.00	59.00	93.67	130.20	146.04	165.67	176.28	192.12	199.97	215.50	154.53	161.34
- STD. DEV.	0.00	0.00	9.56	16.45	20.50	21.70	35.97	23.98	24.97	40.88	27.64	34.75

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	8	159	120	13	0	0	0	0
% AT STAGE	0.00	2.67	53.00	40.00	4.33	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	151	0	0	151
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	6.19	0.00	0.00	6.19

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	148	151	1	300
%	49.33	50.33	0.33	100.00
MEAN WEIGHT	158.47	164.83	59.00	161.34
% SAMP. WT.	48.45	51.42	0.12	100.00

TABLE 7 (CONT.) TRAWL RESEARCH SAMPLE SUMMARIES BY SECTION AND WEEK

SECTION: 25 - SKINCUTTLE INLET
SAMPLE NUMBERS: 41
SOURCE: RESEARCH - INSHORE
GEAR: HERRING TRAWL
WEEK: 5 DATE: AUG 3/85

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	1	8	21	29	9	4	1	3	0	10	86
% AT AGE	0.00	1.32	10.53	27.63	38.16	11.84	5.26	1.32	3.95	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	145.00	184.13	200.43	204.24	206.00	214.25	224.00	217.67	0.00	200.50	201.66
- STD. DEV.	0.00	0.00	9.78	6.48	6.90	7.94	8.46	0.00	15.82	0.00	13.74	12.71
WEIGHT - MEAN(gm)	0.00	48.00	95.38	118.71	131.31	130.11	146.00	167.00	153.67	0.00	116.60	123.97
- STD. DEV.	0.00	0.00	19.00	9.36	14.02	13.08	13.78	0.00	33.84	0.00	26.82	22.30

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	1	75	5	0	0	0	5	0	0
% AT STAGE	1.16	87.21	5.81	0.00	0.00	0.00	5.81	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	45	0	5	50
%	90.00	0.00	10.00	100.00
% SAMPLE WEIGHT	0.00	0.00	0.00	0.00

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	35	50	1	86
%	40.70	58.14	1.16	100.00
MEAN WEIGHT	133.54	118.78	48.00	123.97
% SAMP. WT.	43.84	55.71	0.45	100.00

TABLE 7 (CONT.) TRAWL RESEARCH SAMPLE SUMMARIES BY SECTION AND WEEK

SECTION: 43 - MALACCA PASSAGE
SAMPLE NUMBERS: 36
SOURCE: RESEARCH - INSHORE
GEAR: HERRING TRAWL
WEEK: 23 DATE: DEC 5/85

SPECIMENS AT EACH AGE:

	AGE 1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	61	17	2	0	5	0	0	1	0	14	100
% AT AGE	0.00	70.93	19.77	2.33	0.00	5.81	0.00	0.00	1.16	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	138.34	164.24	172.00	0.00	207.40	0.00	0.00	238.00	0.00	146.36	148.99
- STD. DEV.	0.00	9.55	10.35	1.41	0.00	15.01	0.00	0.00	0.00	0.00	23.15	22.93
WEIGHT - MEAN(gm)	0.00	35.90	64.06	84.00	0.00	133.00	0.00	0.00	194.00	0.00	46.36	49.55
- STD. DEV.	0.00	7.80	10.81	11.31	0.00	43.79	0.00	0.00	0.00	0.00	25.23	30.93

HJORT MATURITY STAGES:

	MATURITY STAGE 1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	21	49	30	0	0	0	0	0	0
% AT STAGE	21.00	49.00	30.00	0.00	0.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	47	0	0	47
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	0.62	0.00	0.00	0.62

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	34	47	19	100
%	34.00	47.00	19.00	100.00
MEAN WEIGHT	61.47	48.11	31.79	49.55
% SAMP. WT.	42.18	45.63	12.19	100.00

TABLE 7 (CONT.) TRAWL RESEARCH SAMPLE SUMMARIES BY SECTION AND WEEK

SECTION: 52 - KITKATLA CHANNEL
SAMPLE NUMBERS: 37, 35, 22, 34, 33, 32, 44, 46, 45
SOURCE: RESEARCH - INSHORE
GEAR: HERRING TRAWL
WEEK: 23 DATE: DEC 1/85 - DEC 6/85

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	68	204	85	54	194	87	39	32	26	10	100	899
% AT AGE	8.51	25.53	10.64	6.76	24.28	10.89	4.88	4.01	3.25	1.25	0.00	100.00
LENGTH - MEAN(mm)	112.75	146.98	186.38	201.33	205.68	212.43	218.97	224.31	232.88	247.90	189.89	184.64
- STD. DEV.	11.05	12.48	8.84	10.97	10.07	12.76	14.63	19.07	17.18	21.48	28.48	36.66
WEIGHT - MEAN(gm)	17.94	43.40	100.38	130.31	139.24	151.51	163.03	181.50	198.00	227.20	112.26	107.51
- STD. DEV.	7.08	15.52	14.98	22.57	19.34	28.14	31.52	38.99	41.40	31.93	48.35	58.19

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	154	164	387	179	14	0	0	0	1
% AT STAGE	17.13	18.24	43.05	19.91	1.56	0.00	0.00	0.00	0.11

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	420	0	0	420
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	4.57	0.00	0.00	4.57

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	328	420	150	898
%	36.53	46.77	16.70	100.00
MEAN WEIGHT	129.84	118.05	29.73	107.60
% SAMP. WT.	44.07	51.31	4.62	100.00

TABLE 7 (CONT.) TRAWL RESEARCH SAMPLE SUMMARIES BY SECTION AND WEEK

SECTION: 52 - KITKATLA CHANNEL
SAMPLE NUMBERS: 40, 39, 38
SOURCE: RESEARCH - INSHORE
GEAR: HERRING TRAWL
WEEK: 24 DATE: DEC 8/85 - DEC 9/85

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	22	23	40	95	38	23	13	3	4	39	300
% AT AGE	0.00	8.43	8.81	15.33	36.40	14.56	8.81	4.98	1.15	1.53	0.00	100.00
LENGTH - MEAN(mm)	0.00	160.27	181.91	202.57	205.61	206.87	216.35	228.62	230.33	240.75	188.51	200.54
- STD. DEV.	0.00	8.06	7.24	10.39	13.82	13.45	13.48	16.02	6.43	29.22	24.26	21.79
WEIGHT - MEAN(gm)	0.00	53.18	89.35	121.55	138.49	135.76	153.09	183.69	191.67	208.75	101.56	125.61
- STD. DEV.	0.00	8.95	13.92	24.67	20.36	28.48	30.26	36.34	9.29	71.72	39.64	40.91

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	13	34	180	62	11	0	0	0	0
% AT STAGE	4.33	11.33	60.00	20.67	3.67	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	153	0	0	153
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	6.53	0.00	0.00	6.53

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	134	153	13	300
%	44.67	51.00	4.33	100.00
MEAN WEIGHT	133.66	125.12	48.46	125.61
% SAMP. WT.	47.53	50.80	1.67	100.00

TABLE 8 SEINE RESEARCH SAMPLE SUMMARIES BY SECTION AND WEEK

SECTION: 132 - KANISH BAY
SAMPLE NUMBERS: 60
SOURCE: RESEARCH - INSHORE
GEAR: HERRING SEINE
WEEK: 32 DATE: FEB 4/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	12	50	22	4	1	2	0	0	0	9	100
% AT AGE	0.00	13.19	54.95	24.18	4.40	1.10	2.20	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	164.17	177.78	192.32	202.00	211.00	222.00	0.00	0.00	0.00	171.00	180.92
- STD. DEV.	0.00	6.79	9.03	9.97	13.74	0.00	0.00	0.00	0.00	0.00	16.57	15.25
WEIGHT - MEAN(gm)	0.00	53.33	72.50	93.77	110.00	139.00	154.50	0.00	0.00	0.00	66.67	78.16
- STD. DEV.	0.00	7.56	12.68	16.36	23.25	0.00	3.54	0.00	0.00	0.00	23.95	23.64

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	16	13	61	9	0	0	0	1
% AT STAGE	0.00	16.00	13.00	61.00	9.00	0.00	0.00	0.00	1.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	44	0	0	44
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	9.53	0.00	0.00	9.53

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	55	44	1	100
%	55.00	44.00	1.00	100.00
MEAN WEIGHT	79.96	76.57	49.00	78.16
% SAMP. WT.	56.27	43.10	0.63	100.00

TABLE 8 (CONT.) SEINE RESEARCH SAMPLE SUMMARIES BY SECTION AND WEEK

SECTION: 144 - FRENCH CREEK
SAMPLE NUMBERS: 13
SOURCE: RESEARCH - INSHORE
GEAR: HERRING SEINE
WEEK: 24 DATE: DEC 11/85

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	15	54	16	2	0	0	0	0	0	13	100
% AT AGE	0.00	17.24	62.07	18.39	2.30	0.00	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	160.00	178.19	198.44	201.00	0.00	0.00	0.00	0.00	0.00	182.15	179.67
- STD. DEV.	0.00	9.69	9.07	5.56	1.41	0.00	0.00	0.00	0.00	0.00	14.28	14.61
WEIGHT - MEAN(gm)	0.00	59.40	86.28	119.94	130.00	0.00	0.00	0.00	0.00	0.00	94.85	89.62
- STD. DEV.	0.00	13.82	13.12	12.07	1.41	0.00	0.00	0.00	0.00	0.00	23.97	23.25

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	8	2	42	48	0	0	0	0	0
% AT STAGE	8.00	2.00	42.00	48.00	0.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	51	0	0	51
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	0.00	0.00	0.00	0.00

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	48	51	1	100
%	48.00	51.00	1.00	100.00
MEAN WEIGHT	90.54	89.37	58.00	89.62
% SAMP. WT.	48.49	50.86	0.65	100.00

TABLE 8 (CONT.) SEINE RESEARCH SAMPLE SUMMARIES BY SECTION AND WEEK

SECTION: 171 - OTHER AREA 17
SAMPLE NUMBERS: 11
SOURCE: RESEARCH - INSHORE
GEAR: HERRING SEINE
WEEK: 19 DATE: NOV 6/85

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	36	46	3	1	0	0	0	0	0	14	100
% AT AGE	0.00	41.86	53.49	3.49	1.16	0.00	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	170.72	180.87	183.33	193.00	0.00	0.00	0.00	0.00	0.00	176.71	176.83
- STD. DEV.	0.00	6.88	11.67	14.57	0.00	0.00	0.00	0.00	0.00	0.00	7.50	10.74
WEIGHT - MEAN(gm)	0.00	74.92	92.04	93.00	115.00	0.00	0.00	0.00	0.00	0.00	84.50	85.08
- STD. DEV.	0.00	9.80	19.48	21.38	0.00	0.00	0.00	0.00	0.00	0.00	14.06	17.69

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	3	31	54	12	0	0	0	0	0
% AT STAGE	3.00	31.00	54.00	12.00	0.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	48	0	0	48
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	0.00	0.00	0.00	0.00

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	52	48	0	100
%	52.00	48.00	0.00	100.00
MEAN WEIGHT	84.10	86.15	0.00	85.08
% SAMP. WT.	51.40	48.60	0.00	100.00

TABLE 8 (CONT.) SEINE RESEARCH SAMPLE SUMMARIES BY SECTION AND WEEK

SECTION: 171 - OTHER AREA 17
SAMPLE NUMBERS: 17
SOURCE: RESEARCH - INSHORE
GEAR: HERRING SEINE
WEEK: 20 DATE: NOV 11/85

SPECIMENS AT EACH AGE:

	AGE 1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	8	66	13	3	2	0	0	0	0	8	100
% AT AGE	0.00	8.70	71.74	14.13	3.26	2.17	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	177.00	194.94	204.62	213.00	215.50	0.00	0.00	0.00	0.00	192.63	195.53
- STD. DEV.	0.00	3.85	6.69	7.54	4.36	3.54	0.00	0.00	0.00	0.00	6.55	9.88
WEIGHT - MEAN(gm)	0.00	82.38	114.06	132.00	155.33	163.50	0.00	0.00	0.00	0.00	110.13	115.77
- STD. DEV.	0.00	6.74	12.91	13.53	7.51	9.19	0.00	0.00	0.00	0.00	12.92	19.27

HJORT MATURITY STAGES:

	MATURITY STAGE 1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	16	56	28	0	0	0	0	0
% AT STAGE	0.00	16.00	56.00	28.00	0.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	56	0	0	56
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	0.00	0.00	0.00	0.00

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	44	56	0	100
%	44.00	56.00	0.00	100.00
MEAN WEIGHT	110.43	119.96	0.00	115.77
% SAMP. WT.	41.97	58.03	0.00	100.00

TABLE 8 (CONT.) SEINE RESEARCH SAMPLE SUMMARIES BY SECTION AND WEEK

SECTION: 171 - OTHER AREA 17
SAMPLE NUMBERS: 3
SOURCE: RESEARCH - INSHORE
GEAR: HERRING SEINE
WEEK: 24 DATE: DEC 8/85

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	8	58	21	2	0	0	0	0	0	11	100
% AT AGE	0.00	8.99	65.17	23.60	2.25	0.00	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	171.00	187.55	195.95	204.50	0.00	0.00	0.00	0.00	0.00	184.45	187.99
- STD. DEV.	0.00	11.76	12.65	11.66	10.61	0.00	0.00	0.00	0.00	0.00	16.57	14.22
WEIGHT - MEAN(gm)	0.00	72.00	99.48	118.14	138.00	0.00	0.00	0.00	0.00	0.00	97.27	101.73
- STD. DEV.	0.00	17.32	19.79	20.76	8.49	0.00	0.00	0.00	0.00	0.00	30.35	24.25

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	1	0	32	55	12	0	0	0	0
% AT STAGE	1.00	0.00	32.00	55.00	12.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	44	2	0	46
%	95.65	4.35	0.00	100.00
% SAMPLE WEIGHT	0.00	0.00	0.00	0.00

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	54	46	0	100
%	54.00	46.00	0.00	100.00
MEAN WEIGHT	100.61	103.04	0.00	101.73
% SAMP. WT.	53.41	46.59	0.00	100.00

TABLE 8 (CONT.) SEINE RESEARCH SAMPLE SUMMARIES BY SECTION AND WEEK

SECTION: 171 - OTHER AREA 17
SAMPLE NUMBERS: 39
SOURCE: RESEARCH - INSHORE
GEAR: HERRING SEINE
WEEK: 36 DATE: MAR 7/86

SPECIMENS AT EACH AGE:

	AGE 1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	37	42	10	2	0	0	0	0	0	9	100
% AT AGE	0.00	40.66	46.15	10.99	2.20	0.00	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	172.38	187.19	203.60	219.50	0.00	0.00	0.00	0.00	0.00	183.56	183.67
- STD. DEV.	0.00	9.19	10.89	5.99	6.36	0.00	0.00	0.00	0.00	0.00	12.65	14.68
WEIGHT - MEAN(gm)	0.00	67.46	88.38	119.30	144.00	0.00	0.00	0.00	0.00	0.00	89.56	84.95
- STD. DEV.	0.00	14.19	16.14	14.97	19.80	0.00	0.00	0.00	0.00	0.00	20.09	23.43

HJORT MATURITY STAGES:

	MATURITY STAGE 1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	5	82	13	0	0	0	0
% AT STAGE	0.00	0.00	5.00	82.00	13.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	40	12	0	52
%	76.92	23.08	0.00	100.00
% SAMPLE WEIGHT	15.72	5.84	0.00	21.56

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	48	52	0	100
%	48.00	52.00	0.00	100.00
MEAN WEIGHT	77.06	92.23	0.00	84.95
% SAMP. WT.	43.54	56.46	0.00	100.00

TABLE 8 (CONT.) SEINE RESEARCH SAMPLE SUMMARIES BY SECTION AND WEEK

SECTION: 172 - NANOOSE BAY
SAMPLE NUMBERS: 15
SOURCE: RESEARCH - INSHORE
GEAR: HERRING SEINE
WEEK: 37 DATE: MAR 9/86

SPECIMENS AT EACH AGE:

	AGE 1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	28	53	5	0	0	1	0	0	0	13	100
% AT AGE	0.00	32.18	60.92	5.75	0.00	0.00	1.15	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	173.18	180.49	194.40	0.00	0.00	217.00	0.00	0.00	0.00	179.92	179.43
- STD. DEV.	0.00	8.77	12.10	9.56	0.00	0.00	0.00	0.00	0.00	0.00	10.36	12.32
WEIGHT - MEAN(gm)	0.00	66.39	75.74	93.80	0.00	0.00	128.00	0.00	0.00	0.00	76.77	74.68
- STD. DEV.	0.00	10.86	15.02	16.45	0.00	0.00	0.00	0.00	0.00	0.00	13.35	15.84

HJORT MATURITY STAGES:

	MATURITY STAGE 1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	4	2	57	37	0	0	0	0
% AT STAGE	0.00	4.00	2.00	57.00	37.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	41	4	0	45
%	91.11	8.89	0.00	100.00
% SAMPLE WEIGHT	15.29	1.95	0.00	17.24

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	55	45	0	100
%	55.00	45.00	0.00	100.00
MEAN WEIGHT	75.25	73.98	0.00	74.68
% SAMP. WT.	55.42	44.58	0.00	100.00

TABLE 8 (CONT.) SEINE RESEARCH SAMPLE SUMMARIES BY SECTION AND WEEK

SECTION: 173 - YELLOW POINT
SAMPLE NUMBERS: 18
SOURCE: RESEARCH - INSHORE
GEAR: HERRING SEINE
WEEK: 16 DATE: OCT 17/85

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	7	64	12	2	1	1	0	0	0	13	100
% AT AGE	0.00	8.05	73.56	13.79	2.30	1.15	1.15	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	160.86	186.92	196.83	206.00	198.00	211.00	0.00	0.00	0.00	192.31	187.72
- STD. DEV.	0.00	9.19	10.86	12.44	4.24	0.00	0.00	0.00	0.00	0.00	10.06	13.69
WEIGHT - MEAN(gm)	0.00	48.43	88.22	105.75	117.50	100.00	131.00	0.00	0.00	0.00	94.31	89.46
- STD. DEV.	0.00	9.18	16.80	18.56	6.36	0.00	0.00	0.00	0.00	0.00	13.70	20.88

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	1	37	62	0	0	0	0	0	0
% AT STAGE	1.00	37.00	62.00	0.00	0.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	60	0	0	60
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	0.00	0.00	0.00	0.00

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	39	60	1	100
%	39.00	60.00	1.00	100.00
MEAN WEIGHT	91.51	88.62	60.00	89.46
% SAMP. WT.	39.89	59.43	0.67	100.00

TABLE 8 (CONT.) SEINE RESEARCH SAMPLE SUMMARIES BY SECTION AND WEEK

SECTION: 173 - YELLOW POINT
SAMPLE NUMBERS: 5
SOURCE: RESEARCH - INSHORE
GEAR: HERRING SEINE
WEEK: 37 DATE: MAR 10/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	7	52	17	7	4	2	0	0	0	11	100
% AT AGE	0.00	7.87	58.43	19.10	7.87	4.49	2.25	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	177.29	191.67	203.41	215.57	225.50	227.00	0.00	0.00	0.00	194.45	196.70
- STD. DEV.	0.00	4.07	11.50	9.68	8.62	8.06	9.90	0.00	0.00	0.00	15.58	15.55
WEIGHT - MEAN(gm)	0.00	71.00	95.37	118.00	140.14	168.00	183.50	0.00	0.00	0.00	101.82	106.02
- STD. DEV.	0.00	7.53	19.28	21.81	25.66	16.55	13.44	0.00	0.00	0.00	29.86	30.72

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	33	67	0	0	0	0
% AT STAGE	0.00	0.00	0.00	33.00	67.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	11	38	0	49
%	22.45	77.55	0.00	100.00
% SAMPLE WEIGHT	4.65	21.30	0.00	25.95

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	51	49	0	100
%	51.00	49.00	0.00	100.00
MEAN WEIGHT	98.71	113.63	0.00	106.02
% SAMP. WT.	47.48	52.52	0.00	100.00

TABLE 8 (CONT.) SEINE RESEARCH SAMPLE SUMMARIES BY SECTION AND WEEK

SECTION: 181 - OTHER AREA 18
SAMPLE NUMBERS: 14
SOURCE: RESEARCH - INSHORE
GEAR: HERRING SEINE
WEEK: 19 DATE: NOV 7/85

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	40	43	3	0	0	0	0	0	0	14	100
% AT AGE	0.00	46.51	50.00	3.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	172.30	185.49	210.33	0.00	0.00	0.00	0.00	0.00	0.00	178.07	179.92
- STD. DEV.	0.00	7.40	8.71	4.04	0.00	0.00	0.00	0.00	0.00	0.00	9.15	11.43
WEIGHT - MEAN(gm)	0.00	76.70	100.16	147.00	0.00	0.00	0.00	0.00	0.00	0.00	89.00	90.62
- STD. DEV.	0.00	12.51	15.16	2.00	0.00	0.00	0.00	0.00	0.00	0.00	15.63	20.15

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	3	13	61	23	0	0	0	0	0
% AT STAGE	3.00	13.00	61.00	23.00	0.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	33	0	0	33
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	0.00	0.00	0.00	0.00

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	67	33	0	100
%	67.00	33.00	0.00	100.00
MEAN WEIGHT	84.87	102.30	0.00	90.62
% SAMP. WT.	62.75	37.25	0.00	100.00

TABLE 9 SEINE COMMERCIAL BAIT SAMPLE SUMMARIES BY SECTION AND WEEK

SECTION: 22 - SKIDEGATE INLET
SAMPLE NUMBERS: 361
SOURCE: BAIT FISHERY
GEAR: HERRING SEINE
WEEK: 45 DATE: MAY 8/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	16	15	19	21	16	4	2	2	5	100
% AT AGE	0.00	0.00	16.84	15.79	20.00	22.11	16.84	4.21	2.11	2.11	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	199.06	206.93	218.53	225.00	235.25	236.75	241.50	241.00	225.80	219.71
- STD. DEV.	0.00	0.00	7.25	7.59	9.84	11.42	13.95	7.27	12.02	2.83	18.27	16.66
WEIGHT - MEAN(gm)	0.00	0.00	111.69	126.07	157.74	174.71	190.00	230.75	212.50	183.00	167.00	159.33
- STD. DEV.	0.00	0.00	17.53	20.40	26.27	35.08	51.74	27.28	43.13	21.21	34.24	44.64

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	4	17	25	33	21	0	0
% AT STAGE	0.00	0.00	4.00	17.00	25.00	33.00	21.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	11	23	8	42
%	26.19	54.76	19.05	100.00
% SAMPLE WEIGHT	6.44	16.39	0.34	23.17

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	58	42	0	100
%	58.00	42.00	0.00	100.00
MEAN WEIGHT	149.33	173.14	0.00	159.33
% SAMP. WT.	54.36	45.64	0.00	100.00

TABLE 10 TRAWL COMMERCIAL FOOD SAMPLE SUMMARIES BY SECTION AND WEEK

SECTION: 11 - OTHER AREA 1
SAMPLE NUMBERS: 23
SOURCE: FOOD FISHERY
GEAR: HERRING TRAWL
WEEK: 25 DATE: DEC 16/85

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	2	4	1	8	8	9	4	8	0	31	75
% AT AGE	0.00	4.55	9.09	2.27	18.18	18.18	20.45	9.09	18.18	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	160.00	193.50	205.00	228.63	227.75	234.33	225.75	243.13	0.00	216.97	221.77
- STD. DEV.	0.00	7.07	6.76	0.00	8.73	8.53	9.12	11.90	10.15	0.00	27.53	24.21
WEIGHT - MEAN(gn)	0.00	59.00	111.25	156.00	203.75	199.63	227.67	202.25	236.13	0.00	179.00	189.89
- STD. DEV.	0.00	7.07	5.85	0.00	25.90	31.39	24.61	46.00	31.81	0.00	67.76	59.78

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	6	57	10	0	0	0	0	2
% AT STAGE	0.00	8.00	76.00	13.33	0.00	0.00	0.00	0.00	2.67

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	40	0	0	40
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	0.00	0.00	0.00	0.00

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	33	40	2	75
%	44.00	53.33	2.67	100.00
MEAN WEIGHT	202.64	181.40	149.50	189.89
% SAMP. WT.	46.95	50.95	2.10	100.00

TABLE 10 (CONT.) TRAWL COMMERCIAL FOOD SAMPLE SUMMARIES BY SECTION AND WEEK

SECTION: 11 - OTHER AREA 1
SAMPLE NUMBERS: 103
SOURCE: FOOD FISHERY
GEAR: HERRING TRAWL
WEEK: 28 DATE: JAN 5/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	52	10	3	8	3	5	3	4	1	11	100
% AT AGE	0.00	58.43	11.24	3.37	8.99	3.37	5.62	3.37	4.49	1.12	0.00	100.00
LENGTH - MEAN(mm)	0.00	165.63	197.20	214.00	220.88	228.00	236.40	231.33	226.00	227.00	176.27	186.24
- STD. DEV.	0.00	8.42	13.64	18.19	10.49	3.61	8.73	7.64	17.83	0.00	30.74	29.43
WEIGHT - MEAN(gm)	0.00	63.31	122.30	163.33	186.63	216.00	226.00	212.67	194.00	222.00	97.36	109.83
- STD. DEV.	0.00	12.99	24.42	36.91	25.70	5.29	18.10	17.04	59.04	0.00	64.21	65.17

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	1	26	20	31	10	0	0	0	12
% AT STAGE	1.00	26.00	20.00	31.00	10.00	0.00	0.00	0.00	12.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	40	0	0	40
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	8.08	0.00	0.00	8.08

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	41	40	19	100
%	41.00	40.00	19.00	100.00
MEAN WEIGHT	125.63	118.13	58.26	109.83
% SAMP. WT.	46.90	43.02	10.08	100.00

TABLE 10 (CONT.) TRAWL COMMERCIAL FOOD SAMPLE SUMMARIES BY SECTION AND WEEK

SECTION: 52 - KITKATLA CHANNEL
SAMPLE NUMBERS: 26, 24, 21, 20
SOURCE: FOOD FISHERY
GEAR: HERRING TRAWL
WEEK: 21 DATE: NOV 19/85 - NOV 20/85

SPECIMENS AT EACH AGE:

	AGE 1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	74	51	36	90	48	20	17	12	7	45	400
% AT AGE	0.00	20.85	14.37	10.14	25.35	13.52	5.63	4.79	3.38	1.97	0.00	100.00
LENGTH - MEAN(mm)	0.00	153.97	184.12	193.56	201.40	205.60	211.20	213.00	221.25	253.86	191.71	191.63
- STD. DEV.	0.00	9.55	11.56	14.15	11.16	15.31	14.79	18.80	18.64	11.13	28.14	26.04
WEIGHT - MEAN(gm)	0.00	53.69	104.90	119.44	139.59	146.21	154.85	164.41	184.33	246.43	119.93	121.07
- STD. DEV.	0.00	11.26	24.75	26.85	22.01	33.52	25.82	45.65	35.21	24.36	52.23	49.25

HJORT MATURITY STAGES:

	MATURITY STAGE 1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	25	75	226	65	6	0	0	0	3
% AT STAGE	6.25	18.75	56.50	16.25	1.50	0.00	0.00	0.00	0.75

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	183	0	0	183
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	0.00	0.00	0.00	0.00

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	187	183	30	400
%	46.75	45.75	7.50	100.00
MEAN WEIGHT	130.82	122.46	51.83	121.07
% SAMP. WT.	50.51	46.28	3.21	100.00

TABLE 10 (CONT.) TRAWL COMMERCIAL FOOD SAMPLE SUMMARIES BY SECTION AND WEEK

SECTION: 52 - KITKATLA CHANNEL
SAMPLE NUMBERS: 27, 43, 42, 19, 25
SOURCE: FOOD FISHERY
GEAR: HERRING TRAWL
WEEK: 24 DATE: DEC 8/85 - DEC 12/85

SPECIMENS AT EACH AGE:

	AGE 1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	16	25	25	73	96	70	34	41	33	24	437
% AT AGE	0.00	3.87	6.05	6.05	17.68	23.24	16.95	8.23	9.93	7.99	0.00	100.00
LENGTH - MEAN(mm)	0.00	153.00	184.40	202.68	208.36	219.43	229.21	241.32	240.12	250.94	221.46	219.89
- STD. DEV.	0.00	8.05	8.26	10.93	10.32	17.07	14.34	10.78	14.67	10.08	18.21	24.84
WEIGHT - MEAN(gm)	0.00	47.44	98.16	127.16	142.86	167.05	188.29	216.06	218.17	242.09	171.08	170.31
- STD. DEV.	0.00	8.94	13.07	18.21	22.78	28.44	32.77	28.32	31.57	35.64	48.11	52.32

HJORT MATURITY STAGES:

	MATURITY STAGE 1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	7	54	289	78	9	0	0	0	0
% AT STAGE	1.60	12.36	66.13	17.85	2.06	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	190	0	0	190
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	1.23	0.00	0.00	1.23

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	241	190	6	437
%	55.15	43.48	1.37	100.00
MEAN WEIGHT	170.02	174.54	47.67	170.31
% SAMP. WT.	55.06	44.56	0.38	100.00

TABLE 11 SEINE COMMERCIAL FOOD SAMPLE SUMMARIES BY SECTION AND WEEK

SECTION: 131 - OTHER AREA 13 STRAIT
SAMPLE NUMBERS: 16, 15
SOURCE: FOOD FISHERY
GEAR: HERRING SEINE
WEEK: 24 DATE: DEC 10/85 - DEC 11/85

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	43	131	8	4	0	0	0	0	0	0	14	200
% AT AGE	23.12	70.43	4.30	2.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	96.21	145.60	154.13	165.00	0.00	0.00	0.00	0.00	0.00	0.00	129.21	134.57
- STD. DEV.	7.59	9.97	17.26	16.43	0.00	0.00	0.00	0.00	0.00	0.00	29.23	24.12
WEIGHT - MEAN(gm)	11.00	43.84	54.00	70.00	0.00	0.00	0.00	0.00	0.00	0.00	32.57	36.92
- STD. DEV.	2.56	21.42	18.88	27.06	0.00	0.00	0.00	0.00	0.00	0.00	20.74	23.76

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	171	12	7	9	0	0	0	0	1
% AT STAGE	85.50	6.00	3.50	4.50	0.00	0.00	0.00	0.00	0.50

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	14	0	0	14
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	0.00	0.00	0.00	0.00

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	15	14	171	200
%	7.50	7.00	85.50	100.00
MEAN WEIGHT	70.13	47.00	33.18	36.92
% SAMP. WT.	14.25	8.91	76.84	100.00

TABLE 11 (CONT.) SEINE COMMERCIAL FOOD SAMPLE SUMMARIES BY SECTION AND WEEK

SECTION: 132 - KANISH BAY
SAMPLE NUMBERS: 10
SOURCE: FOOD FISHERY
GEAR: HERRING SEINE
WEEK: 24 DATE: DEC 9/85

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	14	42	24	2	4	0	0	0	0	14	100
% AT AGE	0.00	16.28	48.84	27.91	2.33	4.65	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	155.50	180.00	190.17	194.00	208.25	0.00	0.00	0.00	0.00	175.64	179.81
- STD. DEV.	0.00	10.38	9.66	9.46	26.87	5.68	0.00	0.00	0.00	0.00	19.74	16.79
WEIGHT - MEAN(gm)	0.00	46.14	83.02	100.42	116.50	136.75	0.00	0.00	0.00	0.00	79.36	84.34
- STD. DEV.	0.00	11.29	15.85	17.96	54.45	19.75	0.00	0.00	0.00	0.00	32.77	27.99

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	15	3	52	30	0	0	0	0	0
% AT STAGE	15.00	3.00	52.00	30.00	0.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	63	0	0	63
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	0.00	0.00	0.00	0.00

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	33	63	4	100
%	33.00	63.00	4.00	100.00
MEAN WEIGHT	79.00	89.89	41.00	84.34
% SAMP. WT.	30.91	67.14	1.94	100.00

TABLE 11 (CONT.) SEINE COMMERCIAL FOOD SAMPLE SUMMARIES BY SECTION AND WEEK

SECTION: 171 - OTHER AREA 17
SAMPLE NUMBERS: 8, 7
SOURCE: FOOD FISHERY
GEAR: HERRING SEINE
WEEK: 18 DATE: OCT 27/85

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	14	118	21	6	0	0	0	0	0	41	200
% AT AGE	0.00	8.81	74.21	13.21	3.77	0.00	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	168.71	187.12	198.19	210.33	0.00	0.00	0.00	0.00	0.00	188.63	188.00
- STD. DEV.	0.00	8.98	9.27	8.45	5.24	0.00	0.00	0.00	0.00	0.00	11.37	11.93
WEIGHT - MEAN(gm)	0.00	73.00	102.31	121.95	149.83	0.00	0.00	0.00	0.00	0.00	103.02	103.89
- STD. DEV.	0.00	13.13	16.83	17.54	14.13	0.00	0.00	0.00	0.00	0.00	19.45	21.37

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	3	30	115	51	1	0	0	0	0
% AT STAGE	1.50	15.00	57.50	25.50	0.50	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	97	0	0	97
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	0.00	0.00	0.00	0.00

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	103	97	0	200
%	51.50	48.50	0.00	100.00
MEAN WEIGHT	103.21	104.61	0.00	103.89
% SAMP. WT.	51.16	48.84	0.00	100.00

TABLE 11 (CONT.) SEINE COMMERCIAL FOOD SAMPLE SUMMARIES BY SECTION AND WEEK

SECTION: 171 - OTHER AREA 17
SAMPLE NUMBERS: 12
SOURCE: FOOD FISHERY
GEAR: HERRING SEINE
WEEK: 20 DATE: NOV 11/85

SPECIMENS AT EACH AGE:

	AGE 1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	33	54	3	1	0	0	0	0	0	9	100
% AT AGE	0.00	36.26	59.34	3.30	1.10	0.00	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	171.33	185.24	194.33	209.00	0.00	0.00	0.00	0.00	0.00	186.11	181.24
- STD. DEV.	0.00	8.02	9.19	8.74	0.00	0.00	0.00	0.00	0.00	0.00	16.61	12.10
WEIGHT - MEAN(gm)	0.00	76.55	98.24	112.00	147.00	0.00	0.00	0.00	0.00	0.00	107.44	92.81
- STD. DEV.	0.00	13.72	17.17	17.52	0.00	0.00	0.00	0.00	0.00	0.00	34.19	22.00

HJORT MATURITY STAGES:

	MATURITY STAGE 1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	3	14	47	36	0	0	0	0	0
% AT STAGE	3.00	14.00	47.00	36.00	0.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	36	0	0	36
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	0.00	0.00	0.00	0.00

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	64	36	0	100
%	64.00	36.00	0.00	100.00
MEAN WEIGHT	91.69	94.81	0.00	92.81
% SAMP. WT.	63.23	36.77	0.00	100.00

TABLE 11 (CONT.) SEINE COMMERCIAL FOOD SAMPLE SUMMARIES BY SECTION AND WEEK

SECTION: 171 - OTHER AREA 17
SAMPLE NUMBERS: 5
SOURCE: FOOD FISHERY
GEAR: HERRING SEINE
WEEK: 21 DATE: NOV 18/85

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	10	34	26	15	5	0	0	0	0	10	100
% AT AGE	0.00	11.11	37.78	28.89	16.67	5.56	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	176.20	192.76	204.15	217.60	215.60	0.00	0.00	0.00	0.00	202.00	199.86
- STD. DEV.	0.00	6.23	9.36	7.81	7.65	7.96	0.00	0.00	0.00	0.00	12.58	14.58
WEIGHT - MEAN(gm)	0.00	80.00	105.00	127.23	158.20	163.20	0.00	0.00	0.00	0.00	128.30	121.50
- STD. DEV.	0.00	13.78	16.16	15.28	16.32	15.50	0.00	0.00	0.00	0.00	24.91	28.98

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	3	59	37	1	0	0	0	0
% AT STAGE	0.00	3.00	59.00	37.00	1.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	50	0	0	50
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	0.00	0.00	0.00	0.00

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	50	50	0	100
%	50.00	50.00	0.00	100.00
MEAN WEIGHT	118.76	124.24	0.00	121.50
% SAMP. WT.	48.87	51.13	0.00	100.00

TABLE 11 (CONT.) SEINE COMMERCIAL FOOD SAMPLE SUMMARIES BY SECTION AND WEEK

SECTION: 173 - YELLOW POINT
SAMPLE NUMBERS: 2, 1
SOURCE: FOOD FISHERY
GEAR: HERRING SEINE
WEEK: 16 DATE: OCT 16/85

SPECIMENS AT EACH AGE:

	AGE 1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	117	55	9	3	0	0	0	0	16	200
% AT AGE	0.00	0.00	63.59	29.89	4.89	1.63	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	192.09	202.71	209.33	213.67	0.00	0.00	0.00	0.00	196.69	196.48
- STD. DEV.	0.00	0.00	15.96	7.68	7.84	13.05	0.00	0.00	0.00	0.00	9.08	14.45
WEIGHT - MEAN(gm)	0.00	0.00	110.46	129.64	143.89	165.00	0.00	0.00	0.00	0.00	114.25	118.36
- STD. DEV.	0.00	0.00	13.36	16.53	22.37	34.70	0.00	0.00	0.00	0.00	16.97	19.17

HJORT MATURITY STAGES:

	MATURITY STAGE 1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	9	141	50	0	0	0	0	0
% AT STAGE	0.00	4.50	70.50	25.00	0.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	81	0	0	81
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	0.00	0.00	0.00	0.00

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	119	81	0	200
%	59.50	40.50	0.00	100.00
MEAN WEIGHT	119.55	116.62	0.00	118.36
% SAMP. WT.	60.10	39.90	0.00	100.00

TABLE 11 (CONT.) SEINE COMMERCIAL FOOD SAMPLE SUMMARIES BY SECTION AND WEEK

SECTION: 181 - OTHER AREA 18
SAMPLE NUMBERS: 9, 6, 4
SOURCE: FOOD FISHERY
GEAR: HERRING SEINE
WEEK: 23 DATE: DEC 5/85 - DEC 6/85

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	45	136	48	17	3	3	1	0	0	47	300
% AT AGE	0.00	17.79	53.75	18.97	6.72	1.19	1.19	0.40	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	171.24	190.23	202.90	214.82	226.67	232.67	252.00	0.00	0.00	187.70	191.40
- STD. DEV.	0.00	7.75	9.86	7.36	9.07	15.95	6.11	0.00	0.00	0.00	16.73	16.40
WEIGHT - MEAN(gm)	0.00	72.60	104.12	129.83	162.82	167.67	202.00	238.00	0.00	0.00	104.02	108.88
- STD. DEV.	0.00	11.71	17.72	15.85	19.99	26.10	2.65	0.00	0.00	0.00	32.79	31.91

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	5	14	147	126	8	0	0	0	0
% AT STAGE	1.67	4.67	49.00	42.00	2.67	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	127	0	0	127
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	0.00	0.00	0.00	0.00

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	172	127	1	300
%	57.33	42.33	0.33	100.00
MEAN WEIGHT	104.74	114.83	64.00	108.88
% SAMP. WT.	55.16	44.65	0.20	100.00

TABLE 12 SEINE ROE FISHERY SAMPLE SUMMARIES BY SECTION

SECTION: 25 - SKINCUTTLE INLET
SAMPLE NUMBERS: 184,179,276,192,265,174,186,282,289,175,
239,189,235,242,200,258,268
SOURCE: ROE FISHERY
GEAR: HERRING SEINE
DATE: MAR 23/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	3	34	298	580	58	56	114	285	4	256	1688
% AT AGE	0.00	0.21	2.37	20.81	40.50	4.05	3.91	7.96	19.90	0.28	0.00	100.00
LENGTH - MEAN(mm)	0.00	175.33	202.62	210.97	217.96	223.86	226.52	229.15	233.91	237.75	218.94	220.47
- STD. DEV.	0.00	13.58	11.57	8.56	9.20	10.05	11.10	9.24	9.84	6.85	12.73	12.85
WEIGHT - MEAN(gm)	0.00	68.33	128.15	143.54	159.56	174.12	180.29	187.96	202.10	203.50	166.18	167.33
- STD. DEV.	0.00	11.15	28.38	22.69	23.61	27.52	29.41	27.20	28.91	13.92	33.25	33.49

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	2	31	1549	105	1	0	0
% AT STAGE	0.00	0.00	0.12	1.84	91.77	6.22	0.06	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	5	835	0	840
%	0.60	99.40	0.00	100.00
% SAMPLE WEIGHT	0.15	29.11	0.00	29.26

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	848	840	0	1688
%	50.24	49.76	0.00	100.00
MEAN WEIGHT	156.21	178.56	0.00	167.33
% SAMP. WT.	46.90	53.10	0.00	100.00

TABLE 12 (CONT.) SEINE ROE FISHERY SAMPLE SUMMARIES BY SECTION

SECTION: 52 - KITKATLA CHANNEL
SAMPLE NUMBERS: 191,177,190,199,266,198,202,196,261,236,
201,342,260,194,351,360,180,185,183,173
SOURCE: ROE FISHERY
GEAR: HERRING SEINE
DATE: APR 2/86 - APR 4/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	45	256	197	778	160	100	142	138	1	183	2000
% AT AGE	0.00	2.48	14.09	10.84	42.82	8.81	5.50	7.82	7.59	0.06	0.00	100.00
LENGTH - MEAN(mm)	0.00	163.98	186.75	202.26	208.87	215.98	218.69	222.73	225.67	232.00	209.05	207.61
- STD. DEV.	0.00	6.01	9.47	10.10	8.51	9.44	8.74	9.94	9.90	0.00	16.37	15.89
WEIGHT - MEAN(gm)	0.00	59.51	93.18	120.62	137.72	150.07	155.02	169.16	175.78	206.00	139.69	135.50
- STD. DEV.	0.00	7.17	16.60	19.31	19.53	22.33	21.60	25.33	27.60	0.00	37.29	33.52

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	52	1819	124	5	0	0
% AT STAGE	0.00	0.00	0.00	2.60	90.95	6.20	0.25	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	16	884	0	900
%	1.78	98.22	0.00	100.00
% SAMPLE WEIGHT	0.30	28.77	0.00	29.07

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	1099	900	0	1999
%	54.98	45.02	0.00	100.00
MEAN WEIGHT	127.20	145.70	0.00	135.53
% SAMP. WT.	51.60	48.40	0.00	100.00

TABLE 12 (CONT.) SEINE ROE FISHERY SAMPLE SUMMARIES BY SECTION

SECTION: 71 - OTHER AREA 7
SAMPLE NUMBERS: 181,195,178,259,188,285,263,203,187,176, 267,297,332
SOURCE: ROE FISHERY
GEAR: HERRING SEINE
DATE: MAR 29/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	2	155	437	152	57	72	75	208	6	136	1300
% AT AGE	0.00	0.17	13.32	37.54	13.06	4.90	6.19	6.44	17.87	0.52	0.00	100.00
LENGTH - MEAN(mm)	0.00	174.50	192.84	203.87	210.32	213.46	217.67	220.23	223.48	227.17	212.96	209.59
- STD. DEV.	0.00	9.19	8.44	8.32	7.71	8.11	10.03	6.92	9.40	8.89	13.82	13.21
WEIGHT - MEAN(gm)	0.00	72.00	103.40	124.92	139.69	144.40	155.33	160.72	169.87	175.17	144.35	138.06
- STD. DEV.	0.00	4.24	14.21	18.01	18.21	19.73	23.78	17.80	25.04	17.77	30.19	29.36

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	4	109	1144	42	1	0	0
% AT STAGE	0.00	0.00	0.31	8.38	88.00	3.23	0.08	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	40	544	0	584
%	6.85	93.15	0.00	100.00
% SAMPLE WEIGHT	1.39	27.39	0.00	28.77

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	716	584	0	1300
%	55.08	44.92	0.00	100.00
MEAN WEIGHT	130.65	147.15	0.00	138.06
% SAMP. WT.	52.12	47.88	0.00	100.00

TABLE 13 GILLNET ROE FISHERY SAMPLE SUMMARIES BY SECTION

SECTION: 25 - SKINCUTTLE INLET
SAMPLE NUMBERS: 241,219,329,217,251,359,213
SOURCE: ROE FISHERY
GEAR: GILLNET
DATE: APR 7/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	0	48	205	22	21	42	65	2	295	700
% AT AGE	0.00	0.00	0.00	11.85	50.62	5.43	5.19	10.37	16.05	0.49	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	0.00	213.42	219.21	224.18	230.24	229.19	231.17	239.00	219.90	221.36
- STD. DEV.	0.00	0.00	0.00	6.97	7.66	9.74	8.56	8.31	8.26	5.66	10.41	10.21
WEIGHT - MEAN(gm)	0.00	0.00	0.00	145.42	153.65	159.68	168.95	169.79	178.37	184.00	156.22	158.17
- STD. DEV.	0.00	0.00	0.00	13.72	19.13	20.70	20.76	21.76	28.76	18.38	22.94	23.24

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	5	551	87	57	0	0
% AT STAGE	0.00	0.00	0.00	0.71	78.71	12.43	8.14	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	1	322	37	360
%	0.28	89.44	10.28	100.00
% SAMPLE WEIGHT	0.07	25.42	0.21	25.69

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	340	360	0	700
%	48.57	51.43	0.00	100.00
MEAN WEIGHT	154.26	161.86	0.00	158.17
% SAMP. WT.	47.37	52.63	0.00	100.00

TABLE 13 (CONT.) GILLNET ROE FISHERY SAMPLE SUMMARIES BY SECTION

SECTION: 42 - BIG BAY
SAMPLE NUMBERS: 270,253,310,254,250,288,269,252,248,286, 262,330,256,237,247,246
SOURCE: ROE FISHERY
GEAR: GILLNET
DATE: APR 12/86 - APR 13/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	5	55	686	242	111	99	73	3	325	1599
% AT AGE	0.00	0.00	0.39	4.32	53.85	19.00	8.71	7.77	5.73	0.24	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	202.60	208.36	212.51	215.27	220.86	223.79	228.07	247.33	215.16	215.35
- STD. DEV.	0.00	0.00	4.22	6.02	6.99	6.93	6.89	8.06	9.84	9.61	8.64	8.81
WEIGHT - MEAN(gm)	0.00	0.00	124.00	132.82	142.20	146.95	157.33	160.78	168.52	200.67	148.62	147.36
- STD. DEV.	0.00	0.00	11.58	14.58	15.80	17.64	16.64	21.53	25.26	36.25	18.31	19.29

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	27	1282	235	55	0	0
% AT STAGE	0.00	0.00	0.00	1.69	80.18	14.70	3.44	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	2	854	39	895
%	0.22	95.42	4.36	100.00
% SAMPLE WEIGHT	0.07	27.24	0.10	27.41

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	704	895	0	1599
%	44.03	55.97	0.00	100.00
MEAN WEIGHT	143.20	150.62	0.00	147.36
% SAMP. WT.	42.79	57.21	0.00	100.00

TABLE 13 (CONT.) GILLNET ROE FISHERY SAMPLE SUMMARIES BY SECTION

SECTION: 67 - KITASU BAY
SAMPLE NUMBERS: 182,257,255,193,197,214
SOURCE: ROE FISHERY
GEAR: GILLNET
DATE: APR 5/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	10	95	73	32	63	71	120	2	134	600
% AT AGE	0.00	0.00	2.15	20.39	15.67	6.87	13.52	15.24	25.75	0.43	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	196.50	208.63	215.73	218.16	221.46	221.96	224.92	226.50	219.93	218.57
- STD. DEV.	0.00	0.00	6.60	7.39	7.62	7.81	7.08	8.78	8.81	9.19	9.98	10.35
WEIGHT - MEAN(gm)	0.00	0.00	114.70	130.92	143.48	152.06	158.79	157.10	163.66	172.50	152.87	150.92
- STD. DEV.	0.00	0.00	12.68	15.69	16.43	19.48	20.50	25.45	23.46	14.85	21.26	23.67

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	13	507	71	9	0	0
% AT STAGE	0.00	0.00	0.00	2.17	84.50	11.83	1.50	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	1	283	6	290
%	0.34	97.59	2.07	100.00
% SAMPLE WEIGHT	0.05	27.11	0.06	27.22

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	310	290	0	600
%	51.67	48.33	0.00	100.00
MEAN WEIGHT	146.06	156.11	0.00	150.92
% SAMP. WT.	50.00	50.00	0.00	100.00

TABLE 13 (CONT.) GILLNET ROE FISHERY SAMPLE SUMMARIES BY SECTION

SECTION: 71 - OTHER AREA 7
SAMPLE NUMBERS: 272,298,296,331,293
SOURCE: ROE FISHERY
GEAR: GILLNET
DATE: APR 5/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	7	99	40	51	63	34	57	2	147	500
% AT AGE	0.00	0.00	1.98	28.05	11.33	14.45	17.85	9.63	16.15	0.57	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	195.14	209.96	216.50	215.71	222.51	225.97	226.60	232.50	215.28	217.08
- STD. DEV.	0.00	0.00	2.12	7.40	9.00	9.89	7.93	8.22	8.45	12.02	8.86	10.44
WEIGHT - MEAN(gm)	0.00	0.00	119.29	144.48	158.73	153.53	171.48	175.09	182.91	186.00	155.77	159.54
- STD. DEV.	0.00	0.00	8.58	17.07	27.97	21.99	23.39	21.66	29.59	62.23	23.41	26.62

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	3	448	49	0	0	0
% AT STAGE	0.00	0.00	0.00	0.60	89.60	9.80	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	1	230	0	231
%	0.43	99.57	0.00	100.00
% SAMPLE WEIGHT	0.12	29.99	0.00	30.11

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	269	231	0	500
%	53.80	46.20	0.00	100.00
MEAN WEIGHT	154.77	165.10	0.00	159.54
% SAMP. WT.	52.19	47.81	0.00	100.00

TABLE 13 (CONT.) GILLNET ROE FISHERY SAMPLE SUMMARIES BY SECTION

SECTION: 72 - POWELL ANCHORAGE
SAMPLE NUMBERS: 343
SOURCE: ROE FISHERY
GEAR: GILLNET
DATE: APR 5/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	1	8	2	6	5	7	19	1	51	100
% AT AGE	0.00	0.00	2.04	16.33	4.08	12.24	10.20	14.29	38.78	2.04	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	214.00	211.13	214.00	217.50	221.60	229.71	230.53	246.00	217.73	220.82
- STD. DEV.	0.00	0.00	0.00	8.20	15.56	7.18	8.62	10.16	5.95	0.00	9.15	10.60
WEIGHT - MEAN(gm)	0.00	0.00	134.00	143.25	163.50	158.67	183.80	197.43	190.42	249.00	158.45	168.08
- STD. DEV.	0.00	0.00	0.00	10.31	44.55	16.40	24.60	33.76	20.50	0.00	21.06	28.03

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	0	88	10	2	0	0
% AT STAGE	0.00	0.00	0.00	0.00	88.00	10.00	2.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	0	39	1	40
%	0.00	97.50	2.50	100.00
% SAMPLE WEIGHT	0.00	30.23	0.03	30.26

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	60	40	0	100
%	60.00	40.00	0.00	100.00
MEAN WEIGHT	163.87	174.40	0.00	168.08
% SAMP. WT.	58.50	41.50	0.00	100.00

TABLE 13 (CONT.) GILLNET ROE FISHERY SAMPLE SUMMARIES BY SECTION

SECTION: 74 - THOMPSON BAY
SAMPLE NUMBERS: 291,279,243
SOURCE: ROE FISHERY
GEAR: GILLNET
DATE: APR 5/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	1	54	13	18	40	29	42	4	91	292
% AT AGE	0.00	0.00	0.50	26.87	6.47	8.96	19.90	14.43	20.90	1.99	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	206.00	211.56	220.08	221.50	225.00	228.55	231.74	236.25	217.58	221.18
- STD. DEV.	0.00	0.00	0.00	5.59	5.47	6.37	6.65	7.65	8.27	6.85	9.12	10.27
WEIGHT - MEAN(gm)	0.00	0.00	143.00	145.28	160.00	163.06	177.20	183.93	191.98	219.25	160.78	167.79
- STD. DEV.	0.00	0.00	0.00	14.43	15.85	16.08	21.32	26.19	26.41	24.35	20.48	26.44

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	0	278	10	4	0	0
% AT STAGE	0.00	0.00	0.00	0.00	95.21	3.42	1.37	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	0	121	1	122
%	0.00	99.18	0.82	100.00
% SAMPLE WEIGHT	0.00	30.75	0.01	30.76

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	170	122	0	292
%	58.22	41.78	0.00	100.00
MEAN WEIGHT	163.61	173.62	0.00	167.79
% SAMP. WT.	56.77	43.23	0.00	100.00

TABLE 14 PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 2 - PORT LOUIS
SAMPLE NUMBERS: 274,271,275
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 3/86 - MAR 5/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	1	0	2	5	7	30	25	112	1	10	193
% AT AGE	0.00	0.55	0.00	1.09	2.73	3.83	16.39	13.66	61.20	0.55	0.00	100.00
LENGTH - MEAN(mm)	0.00	177.00	0.00	229.00	226.20	243.43	245.57	246.96	247.94	243.00	245.10	245.98
- STD. DEV.	0.00	0.00	0.00	15.56	8.29	9.03	6.13	6.53	7.11	0.00	15.84	9.90
WEIGHT - MEAN(gm)	0.00	87.00	0.00	196.50	175.00	212.14	237.33	229.68	244.00	204.00	219.60	235.39
- STD. DEV.	0.00	0.00	0.00	55.86	35.45	23.65	20.76	27.26	30.04	0.00	43.25	33.75

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	30	143	19	1	0	0
% AT STAGE	0.00	0.00	0.00	15.54	74.09	9.84	0.52	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	16	81	0	97
%	16.49	83.51	0.00	100.00
% SAMPLE WEIGHT	4.39	24.14	0.00	28.54

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	96	97	0	193
%	49.74	50.26	0.00	100.00
MEAN WEIGHT	223.26	247.39	0.00	235.39
% SAMP. WT.	47.18	52.82	0.00	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 5 - ENGLEFIELD BAY
SAMPLE NUMBERS: 345,314
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 11/86 - MAR 12/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	2	1	40	38	13	46	2	40	1	14	197
% AT AGE	0.00	1.09	0.55	21.86	20.77	7.10	25.14	1.09	21.86	0.55	0.00	100.00
LENGTH - MEAN(mm)	0.00	178.00	211.00	219.05	224.87	227.92	237.02	239.00	238.90	246.00	233.21	229.87
- STD. DEV.	0.00	4.24	0.00	8.10	7.02	11.41	7.30	2.83	6.73	0.00	8.55	12.10
WEIGHT - MEAN(gm)	0.00	76.50	116.00	146.63	160.68	169.23	194.85	193.00	196.32	210.00	189.29	175.14
- STD. DEV.	0.00	6.36	0.00	19.65	14.51	29.76	21.17	26.87	21.46	0.00	28.59	30.92

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	194	3	0	0	0	0
% AT STAGE	0.00	0.00	0.00	98.48	1.52	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	185	0	0	185
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	22.90	0.00	0.00	22.90

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	12	185	0	197
%	6.09	93.91	0.00	100.00
MEAN WEIGHT	161.75	176.01	0.00	175.14
% SAMP. WT.	5.63	94.37	0.00	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 6 - LOUSCOONE INLET
SAMPLE NUMBERS: 306
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 14/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	96	1	0	0	0	0	0	0	0	3	100
% AT AGE	0.00	98.97	1.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	170.50	186.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	178.33	170.89
- STD. DEV.	0.00	5.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.34	6.44
WEIGHT - MEAN(gm)	0.00	69.51	91.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	84.00	70.16
- STD. DEV.	0.00	9.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.62	10.45

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	14	0	85	1	0	0	0	0
% AT STAGE	0.00	14.00	0.00	85.00	1.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	26	1	0	27
%	96.30	3.70	0.00	100.00
% SAMPLE WEIGHT	17.61	0.82	0.00	18.43

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	62	27	11	100
%	62.00	27.00	11.00	100.00
MEAN WEIGHT	67.81	76.56	67.73	70.16
% SAMP. WT.	59.92	29.46	10.62	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 22 - SKIDEGATE INLET
SAMPLE NUMBERS: 318
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 20/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	2	19	44	4	3	4	13	0	11	100
% AT AGE	0.00	0.00	2.25	21.35	49.44	4.49	3.37	4.49	14.61	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	201.00	212.11	215.45	220.25	233.67	228.25	232.77	0.00	221.18	218.66
- STD. DEV.	0.00	0.00	11.31	8.16	7.06	10.05	5.51	8.66	8.62	0.00	10.49	10.85
WEIGHT - MEAN(gm)	0.00	0.00	115.00	145.42	155.61	148.75	201.67	191.75	202.85	0.00	171.27	163.28
- STD. DEV.	0.00	0.00	14.14	21.24	21.70	12.71	32.62	24.16	27.59	0.00	34.23	31.25

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	21	78	1	0	0	0
% AT STAGE	0.00	0.00	0.00	21.00	78.00	1.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	18	39	0	57
%	31.58	68.42	0.00	100.00
% SAMPLE WEIGHT	7.45	20.58	0.00	28.03

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	43	57	0	100
%	43.00	57.00	0.00	100.00
MEAN WEIGHT	157.14	167.91	0.00	163.28
% SAMP. WT.	41.38	58.62	0.00	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 24 - LASKEEK BAY
SAMPLE NUMBERS: 326,336,312,240,328,290,315,278,292,245,
319,325,344,311,340,316
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 6/86 - MAR 31/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	82	8	71	316	579	74	41	102	171	2	134	1580
% AT AGE	5.67	0.55	4.91	21.85	40.04	5.12	2.84	7.05	11.83	0.14	0.00	100.00
LENGTH - MEAN(mm)	109.72	167.75	193.52	207.40	213.51	219.11	224.29	225.62	230.26	250.00	205.87	208.31
- STD. DEV.	12.19	13.74	7.22	7.82	8.61	8.16	8.20	8.98	9.29	11.31	32.75	27.91
WEIGHT - MEAN(gm)	14.06	67.75	111.68	137.01	153.95	166.99	179.66	184.41	196.68	267.00	144.76	148.20
- STD. DEV.	3.74	20.66	14.55	19.01	22.57	23.26	25.39	26.10	29.76	25.46	54.04	46.50

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	1	5	4	338	1078	60	0	0	94
% AT STAGE	0.06	0.32	0.25	21.39	68.23	3.80	0.00	0.00	5.95

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	284	481	0	765
%	37.12	62.88	0.00	100.00
% SAMPLE WEIGHT	8.94	19.02	0.00	27.96

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	720	765	95	1580
%	45.57	48.42	6.01	100.00
MEAN WEIGHT	144.31	168.48	14.35	148.20
% SAMP. WT.	44.37	55.05	0.58	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 25 - SKINCUTTLE INLET
SAMPLE NUMBERS: 324,302,308,305,327,313,322,317,346,303,
323,341,280,320,309,304,300,307,301,334
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 4/86 - MAR 31/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	2	28	408	705	56	51	155	432	8	129	1974
% AT AGE	0.00	0.11	1.52	22.11	38.21	3.04	2.76	8.40	23.41	0.43	0.00	100.00
LENGTH - MEAN(mm)	0.00	182.50	198.21	210.28	217.67	222.39	226.37	229.23	233.08	244.25	221.58	220.83
- STD. DEV.	0.00	2.12	6.05	7.14	8.64	8.96	9.33	9.52	9.60	11.78	13.52	12.59
WEIGHT - MEAN(gm)	0.00	89.50	116.39	142.18	162.55	174.05	183.82	190.74	204.82	227.88	172.22	170.85
- STD. DEV.	0.00	4.95	10.41	18.21	23.62	26.08	30.94	27.66	27.97	29.69	34.75	34.19

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	289	1598	87	0	0	0
% AT STAGE	0.00	0.00	0.00	14.64	80.95	4.41	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	186	773	0	959
%	19.40	80.60	0.00	100.00
% SAMPLE WEIGHT	4.81	24.24	0.00	29.05

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	1015	959	0	1974
%	51.42	48.58	0.00	100.00
MEAN WEIGHT	160.86	181.42	0.00	170.85
% SAMP. WT.	48.41	51.59	0.00	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 32 - PORTLAND INLET
SAMPLE NUMBERS: 224,215,230,220
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 14/86 - MAR 22/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	53	34	195	47	20	11	5	0	35	400
% AT AGE	0.00	0.00	14.52	9.32	53.42	12.88	5.48	3.01	1.37	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	188.06	197.76	207.27	212.60	220.00	221.18	226.80	0.00	210.43	206.08
- STD. DEV.	0.00	0.00	9.44	10.54	8.76	9.00	7.68	9.71	13.57	0.00	12.58	12.87
WEIGHT - MEAN(gm)	0.00	0.00	92.49	111.59	130.56	142.11	158.75	169.27	180.00	0.00	138.20	129.02
- STD. DEV.	0.00	0.00	14.36	19.88	19.49	19.64	21.75	28.45	35.23	0.00	28.15	27.66

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	1	144	242	13	0	0	0
% AT STAGE	0.00	0.00	0.25	36.00	60.50	3.25	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	138	54	0	192
%	71.88	28.13	0.00	100.00
% SAMPLE WEIGHT	16.67	8.64	0.00	25.30

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	208	192	0	400
%	52.00	48.00	0.00	100.00
MEAN WEIGHT	120.09	138.70	0.00	129.02
% SAMP. WT.	48.40	51.60	0.00	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 33 - PORT SIMPSON
SAMPLE NUMBERS: 335,287,231,207,284,211,226,294,233,299, 295
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 15/86 - MAR 31/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	6	193	82	504	138	48	31	10	0	88	1100
% AT AGE	0.00	0.59	19.07	8.10	49.80	13.64	4.74	3.06	0.99	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	161.50	182.82	194.52	205.13	209.59	214.63	219.97	226.70	0.00	203.27	201.62
- STD. DEV.	0.00	4.85	9.60	8.35	9.05	9.21	8.14	9.31	7.04	0.00	17.30	14.48
WEIGHT - MEAN(gm)	0.00	50.00	84.02	105.38	128.58	136.17	153.40	158.48	167.10	0.00	125.45	121.58
- STD. DEV.	0.00	5.62	16.82	18.15	22.64	22.06	21.91	27.82	27.16	0.00	34.51	30.96

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	1	76	434	567	18	2	0	2
% AT STAGE	0.00	0.09	6.91	39.45	51.55	1.64	0.18	0.00	0.18

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	358	209	0	567
%	63.14	36.86	0.00	100.00
% SAMPLE WEIGHT	12.78	11.42	0.00	24.19

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	530	567	3	1100
%	48.18	51.55	0.27	100.00
MEAN WEIGHT	118.62	124.76	45.00	121.58
% SAMP. WT.	47.01	52.89	0.10	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 42 - BIG BAY
SAMPLE NUMBERS: 283,273,210,249,223,212
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 24/86 - MAR 29/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	0	50	44	295	80	29	35	12	1	54	600
% AT AGE	0.00	0.00	9.16	8.06	54.03	14.65	5.31	6.41	2.20	0.18	0.00	100.00
LENGTH - MEAN(mm)	0.00	0.00	188.42	198.25	207.18	211.38	217.03	220.51	230.33	229.00	208.00	207.35
- STD. DEV.	0.00	0.00	7.32	9.03	8.42	7.72	8.76	8.40	8.45	0.00	17.31	12.36
WEIGHT - MEAN(gm)	0.00	0.00	96.86	116.77	137.43	146.15	156.00	166.26	195.83	211.00	134.83	137.33
- STD. DEV.	0.00	0.00	12.69	16.26	19.35	22.96	23.37	22.00	23.60	0.00	29.58	27.35

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	1	93	503	3	0	0	0
% AT STAGE	0.00	0.00	0.17	15.50	83.83	0.50	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	41	253	0	294
%	13.95	86.05	0.00	100.00
% SAMPLE WEIGHT	3.36	24.38	0.00	27.74

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	306	294	0	600
%	51.00	49.00	0.00	100.00
MEAN WEIGHT	129.76	145.21	0.00	137.33
% SAMP. WT.	48.19	51.81	0.00	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 43 - MALACCA PASSAGE
SAMPLE NUMBERS: 277,281
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: APR 8/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	30	30	14	48	26	15	12	3	0	22	200
% AT AGE	0.00	16.85	16.85	7.87	26.97	14.61	8.43	6.74	1.69	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	152.87	180.70	194.79	209.13	211.69	221.60	222.75	227.00	0.00	192.59	195.96
- STD. DEV.	0.00	9.14	11.83	10.02	8.38	9.51	14.34	9.85	4.58	0.00	25.65	25.58
WEIGHT - MEAN(gm)	0.00	44.53	81.43	110.00	139.69	149.19	168.67	170.08	185.00	0.00	108.82	117.11
- STD. DEV.	0.00	10.05	17.42	18.29	19.48	23.96	34.82	27.70	21.93	0.00	48.75	48.16

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	33	8	35	122	2	0	0	0
% AT STAGE	0.00	16.50	4.00	17.50	61.00	1.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	44	55	0	99
%	44.44	55.56	0.00	100.00
% SAMPLE WEIGHT	3.30	19.91	0.00	23.22

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	84	99	17	200
%	42.00	49.50	8.50	100.00
MEAN WEIGHT	125.99	122.04	44.59	117.11
% SAMP. WT.	45.18	51.58	3.24	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 52 - KITKATLA CHANNEL
SAMPLE NUMBERS: 264,232,234,228,204,209,222,218,333,353,
206,221,216,225,227,244,229,205,208
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 18/86 - APR 11/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	18	196	163	796	160	86	170	145	3	160	1897
% AT AGE	0.00	1.04	11.28	9.38	45.83	9.21	4.95	9.79	8.35	0.17	0.00	100.00
LENGTH - MEAN(mm)	0.00	165.56	187.05	201.15	207.96	213.29	217.66	219.46	224.63	230.67	207.31	207.99
- STD. DEV.	0.00	11.34	8.96	8.87	9.01	8.73	8.98	8.64	9.16	6.35	15.52	14.15
WEIGHT - MEAN(gm)	0.00	65.61	98.32	125.27	142.61	155.42	162.03	169.99	182.41	201.00	142.27	143.33
- STD. DEV.	0.00	14.63	17.91	21.55	21.99	22.04	22.83	23.62	26.00	18.08	35.08	32.49

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	172	1612	105	8	0	0
% AT STAGE	0.00	0.00	0.00	9.07	84.98	5.54	0.42	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	93	898	3	994
%	9.36	90.34	0.30	100.00
% SAMPLE WEIGHT	2.37	27.43	0.01	29.81

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	902	994	0	1896
%	47.57	52.43	0.00	100.00
MEAN WEIGHT	133.81	151.92	0.00	143.31
% SAMP. WT.	44.42	55.58	0.00	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 67 - KITASU BAY
SAMPLE NUMBERS: 127,146,167,172,164,150,149
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 4/86 - MAR 28/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	8	84	256	65	36	41	40	90	2	45	667
% AT AGE	0.00	1.29	13.50	41.16	10.45	5.79	6.59	6.43	14.47	0.32	0.00	100.00
LENGTH - MEAN(mm)	0.00	166.88	189.77	201.04	209.02	208.14	214.80	215.73	219.50	215.50	204.89	204.89
- STD. DEV.	0.00	6.22	9.28	8.71	8.40	10.41	9.28	10.10	10.38	0.71	17.33	13.95
WEIGHT - MEAN(gm)	0.00	64.00	103.55	123.54	139.94	138.06	157.17	157.05	166.47	150.00	137.40	133.57
- STD. DEV.	0.00	12.80	14.53	18.09	16.55	23.09	24.76	26.64	27.61	19.80	34.11	29.94

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	1	18	460	185	2	0	0	1
% AT STAGE	0.00	0.15	2.70	68.97	27.74	0.30	0.00	0.00	0.15

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	288	44	0	332
%	86.75	13.25	0.00	100.00
% SAMPLE WEIGHT	19.07	3.95	0.00	23.02

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	333	332	2	667
%	49.93	49.78	0.30	100.00
MEAN WEIGHT	126.71	140.90	58.50	133.57
% SAMP. WT.	47.36	52.51	0.13	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 71 - OTHER AREA 7
SAMPLE NUMBERS: 141,136,153,171,145,154,137,160,169,354, 132,131,128,143
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 12/86 - MAR 30/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	51	213	577	117	67	80	73	130	6	78	1392
% AT AGE	0.00	3.88	16.21	43.91	8.90	5.10	6.09	5.56	9.89	0.46	0.00	100.00
LENGTH - MEAN(mm)	0.00	164.37	187.54	200.05	204.95	212.43	214.99	217.52	221.95	228.17	203.49	201.97
- STD. DEV.	0.00	9.05	9.97	9.10	8.71	10.11	10.74	3.73	9.51	14.93	17.76	15.99
WEIGHT - MEAN(gm)	0.00	59.82	99.65	124.79	134.07	152.39	157.60	163.37	177.13	213.67	131.37	130.22
- STD. DEV.	0.00	13.57	18.04	19.70	21.80	27.62	26.09	28.69	29.99	22.84	34.74	35.00

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	2	22	17	600	736	13	1	0	1
% AT STAGE	0.14	1.58	1.22	43.10	52.87	0.93	0.07	0.00	0.07

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	363	342	0	705
%	51.49	48.51	0.00	100.00
% SAMPLE WEIGHT	10.66	14.68	0.00	25.34

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	678	705	9	1392
%	48.71	50.65	0.65	100.00
MEAN WEIGHT	126.51	134.82	49.44	130.22
% SAMP. WT.	47.32	52.44	0.25	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 72 - POWELL ANCHORAGE
SAMPLE NUMBERS: 158,152,147,166,126
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 15/86 - MAR 30/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	19	67	212	31	35	24	31	43	3	35	500
% AT AGE	0.00	4.09	14.41	45.59	6.67	7.53	5.16	6.67	9.25	0.65	0.00	100.00
LENGTH - MEAN(mm)	0.00	165.74	186.63	203.07	211.81	216.46	221.13	222.94	227.14	234.00	208.89	205.69
- STD. DEV.	0.00	6.45	9.43	9.33	10.17	11.92	12.83	8.93	10.53	1.73	17.26	17.50
WEIGHT - MEAN(gm)	0.00	65.47	97.87	132.72	155.35	166.77	178.58	183.29	195.65	225.33	150.11	141.80
- STD. DEV.	0.00	11.77	18.01	21.41	25.86	27.58	31.07	31.19	36.40	33.50	40.83	41.31

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	3	171	319	6	1	0	0
% AT STAGE	0.00	0.00	0.60	34.20	63.80	1.20	0.20	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	118	155	1	274
%	43.07	56.57	0.36	100.00
% SAMPLE WEIGHT	10.32	17.12	0.00	27.44

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	226	274	0	500
%	45.20	54.80	0.00	100.00
MEAN WEIGHT	129.74	151.75	0.00	141.80
% SAMP. WT.	41.35	58.65	0.00	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 74 - THOMPSON BAY
SAMPLE NUMBERS: 356,125,142,144,129,156,139,168,148,157,
140,339,159,348,163,130,138,170,165,162
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 1/86 - MAR 30/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	124	297	637	121	141	153	125	178	13	169	1958
% AT AGE	0.00	6.93	16.60	35.61	6.76	7.88	8.55	6.99	9.95	0.73	0.00	100.00
LENGTH - MEAN(mm)	0.00	163.66	187.01	204.03	211.42	216.60	221.65	226.22	228.24	230.31	208.27	205.79
- STD. DEV.	0.00	11.31	11.26	9.76	9.88	11.12	11.90	10.76	9.49	8.32	20.72	20.27
WEIGHT - MEAN(gm)	0.00	62.89	99.70	134.46	154.51	166.53	179.38	193.25	199.46	203.77	149.10	143.10
- STD. DEV.	0.00	23.35	19.56	21.66	25.17	31.10	30.46	32.02	28.94	27.80	48.10	45.98

MAJOR MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	9	30	1017	867	24	1	0	10
% AT STAGE	0.00	0.46	1.53	51.94	44.28	1.23	0.05	0.00	0.51

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	748	303	1	1052
%	71.10	28.80	0.10	100.00
% SAMPLE WEIGHT	16.08	8.83	0.00	24.91

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	894	1052	12	1958
%	45.66	53.73	0.61	100.00
MEAN WEIGHT	133.83	152.06	48.00	143.10
% SAMP. WT.	42.70	57.09	0.21	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 76 - KILDIDT SOUND
SAMPLE NUMBERS: 347,155,135
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 7/86 - APR 3/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	95	53	93	5	13	10	4	4	1	22	300
% AT AGE	0.00	34.17	19.06	33.45	1.80	4.68	3.60	1.44	1.44	0.36	0.00	100.00
LENGTH - MEAN(mm)	0.00	153.09	182.58	194.39	197.20	205.69	214.10	217.75	222.75	210.00	174.18	179.68
- STD. DEV.	0.00	10.07	8.47	10.16	18.14	6.24	6.30	3.77	7.09	0.00	18.24	22.90
WEIGHT - MEAN(gm)	0.00	47.39	89.58	113.32	121.20	138.46	163.00	158.75	174.00	152.00	82.18	90.39
- STD. DEV.	0.00	10.57	15.67	19.92	42.23	18.41	12.25	13.84	15.60	0.00	31.83	39.18

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	1	31	5	66	138	2	11	0	46
% AT STAGE	0.33	10.33	1.67	22.00	46.00	0.67	3.67	0.00	15.33

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	75	48	0	123
%	60.98	39.02	0.00	100.00
% SAMPLE WEIGHT	10.25	12.79	0.00	23.04

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	129	123	48	300
%	43.00	41.00	16.00	100.00
MEAN WEIGHT	96.90	101.12	45.38	90.39
% SAMP. WT.	46.10	45.87	8.03	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 85 - KWAKSHUA CHANNEL
SAMPLE NUMBERS: 349,134,133
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 17/86 - APR 3/86

SPECIMENS AT EACH AGE:

	AGE 1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	19	86	131	9	16	9	6	2	0	21	299
% AT AGE	0.00	6.83	30.94	47.12	3.24	5.76	3.24	2.16	0.72	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	161.84	182.64	194.44	199.67	207.88	215.44	214.33	223.50	0.00	197.52	191.29
- STD. DEV.	0.00	11.55	7.58	10.42	9.58	13.40	18.80	4.63	0.71	0.00	15.97	15.70
WEIGHT - MEAN(gm)	0.00	61.16	89.69	112.34	119.00	137.38	156.33	146.17	194.00	0.00	116.81	106.98
- STD. DEV.	0.00	10.85	13.30	21.04	21.49	25.98	42.78	16.07	11.31	0.00	31.59	29.44

HJORT MATURITY STAGES:

	MATURITY STAGE 1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	1	1	58	217	17	4	0	1
% AT STAGE	0.00	0.33	0.33	19.40	72.58	5.69	1.34	0.00	0.33

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	42	93	2	137
%	30.66	67.88	1.46	100.00
% SAMPLE WEIGHT	7.02	20.15	0.04	27.21

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	161	137	1	299
%	53.85	45.82	0.33	100.00
MEAN WEIGHT	101.42	113.97	44.00	106.98
% SAMP. WT.	51.05	48.82	0.14	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 123 - CRACROFT ISLAND
SAMPLE NUMBERS: 105
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 21/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	92	3	2	0	0	0	0	0	0	3	100
% AT AGE	0.00	94.85	3.09	2.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	161.40	164.33	167.50	0.00	0.00	0.00	0.00	0.00	0.00	158.33	161.52
- STD. DEV.	0.00	7.15	19.63	7.78	0.00	0.00	0.00	0.00	0.00	0.00	3.51	7.55
WEIGHT - MEAN(gm)	0.00	52.57	59.67	68.00	0.00	0.00	0.00	0.00	0.00	0.00	52.00	53.07
- STD. DEV.	0.00	8.01	18.50	15.56	0.00	0.00	0.00	0.00	0.00	0.00	6.56	8.68

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	12	74	1	5	5	0	0	0	3
% AT STAGE	12.00	74.00	1.00	5.00	5.00	0.00	0.00	0.00	3.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	60	0	0	60
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	1.17	0.00	0.00	1.17

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	24	60	16	100
%	24.00	60.00	16.00	100.00
MEAN WEIGHT	52.46	54.35	49.19	53.07
% SAMP. WT.	23.72	61.45	14.83	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 126 - KINGCOME INLET
SAMPLE NUMBERS: 104
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 18/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	11	16	58	1	5	2	0	0	0	7	100
% AT AGE	0.00	11.83	17.20	62.37	1.08	5.38	2.15	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	157.36	157.94	165.59	171.00	180.60	191.00	0.00	0.00	0.00	162.86	164.58
- STD. DEV.	0.00	6.36	8.84	9.76	0.00	8.62	0.00	0.00	0.00	0.00	13.68	11.24
WEIGHT - MEAN(gm)	0.00	53.09	52.56	66.17	76.00	86.20	107.50	0.00	0.00	0.00	62.43	64.22
- STD. DEV.	0.00	9.51	9.43	13.16	0.00	17.43	3.54	0.00	0.00	0.00	16.80	15.92

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	3	1	66	29	0	0	0	1
% AT STAGE	0.00	3.00	1.00	66.00	29.00	0.00	0.00	0.00	1.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	44	1	0	45
%	97.78	2.22	0.00	100.00
% SAMPLE WEIGHT	20.79	0.49	0.00	21.28

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	54	45	1	100
%	54.00	45.00	1.00	100.00
MEAN WEIGHT	61.67	67.67	47.00	64.22
% SAMP. WT.	51.85	47.42	0.73	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 136 - OTHER AREA 13 GULF
SAMPLE NUMBERS: 101,358
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 25/86 - MAR 12/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	26	116	26	8	4	0	0	0	0	20	200
% AT AGE	0.00	14.44	64.44	14.44	4.44	2.22	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	156.62	177.22	187.31	196.13	206.75	0.00	0.00	0.00	0.00	177.65	177.24
- STD. DEV.	0.00	13.62	9.70	9.64	13.29	10.78	0.00	0.00	0.00	0.00	12.12	14.56
WEIGHT - MEAN(gm)	0.00	46.69	72.10	86.73	105.63	129.25	0.00	0.00	0.00	0.00	72.55	73.23
- STD. DEV.	0.00	12.97	14.74	13.15	22.33	38.96	0.00	0.00	0.00	0.00	15.26	21.29

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	7	12	4	109	65	1	1	0	1
% AT STAGE	3.50	6.00	2.00	54.50	32.50	0.50	0.50	0.00	0.50

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	76	26	1	103
%	73.79	25.24	0.97	100.00
% SAMPLE WEIGHT	11.49	6.82	0.03	18.34

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	88	103	9	200
%	44.00	51.50	4.50	100.00
MEAN WEIGHT	72.81	76.45	40.56	73.23
% SAMP. WT.	43.75	53.76	2.49	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 137 - HERIOT BAY
SAMPLE NUMBERS: 45, 72, 55,107
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 25/86 - MAR 13/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	25	217	87	17	2	0	0	1	0	50	399
% AT AGE	0.00	7.16	62.18	24.93	4.87	0.57	0.00	0.00	0.29	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	162.28	178.11	188.06	191.35	208.00	0.00	0.00	224.00	0.00	180.72	180.44
- STD. DEV.	0.00	8.80	8.55	9.28	11.07	7.07	0.00	0.00	0.00	0.00	11.25	11.56
WEIGHT - MEAN(gm)	0.00	53.64	75.12	90.52	98.24	129.50	0.00	0.00	193.00	0.00	80.70	79.38
- STD. DEV.	0.00	10.47	13.49	16.79	21.20	27.58	0.00	0.00	0.00	0.00	18.19	19.13

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	3	8	221	166	0	1	0	0
% AT STAGE	0.00	0.75	2.01	55.39	41.60	0.00	0.25	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	153	35	1	189
%	80.95	18.52	0.53	100.00
% SAMPLE WEIGHT	14.66	4.86	0.00	19.52

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	210	189	0	399
%	52.63	47.37	0.00	100.00
MEAN WEIGHT	77.48	81.50	0.00	79.38
% SAMP. WT.	51.37	48.63	0.00	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 142 - BAYNES SOUND
SAMPLE NUMBERS: 88, 6, 116, 99, 19, 4, 91, 33, 16, 3, 98, 59, 2, 32, 57, 48, 10, 1, 64, 22, 8, 109, 53, 9, 21, 108, 69, 102, 58
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 27/86 - MAR 24/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	245	1451	659	169	54	21	3	2	0	294	2898
% AT AGE	0.00	9.41	55.72	25.31	6.49	2.07	0.81	0.12	0.08	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	171.46	186.12	197.95	208.44	216.94	227.24	234.67	234.50	0.00	190.02	190.22
- STD. DEV.	0.00	9.32	11.38	10.85	10.89	8.81	9.67	10.02	0.71	0.00	15.75	15.19
WEIGHT - MEAN(gm)	0.00	65.33	89.00	109.64	133.57	148.39	176.62	209.67	186.50	0.00	96.08	96.94
- STD. DEV.	0.00	13.00	18.78	21.23	25.57	24.49	24.61	35.36	16.26	0.00	26.54	27.64

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	14	3	1130	1426	4	317	3	1
% AT STAGE	0.00	0.48	0.10	38.99	49.21	0.14	10.94	0.10	0.03

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	522	793	129	1444
%	36.15	54.92	8.93	100.00
% SAMPLE WEIGHT	7.71	15.14	0.04	22.89

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	1449	1444	4	2897
%	50.02	49.84	0.14	100.00
MEAN WEIGHT	91.39	102.62	70.75	96.96
% SAMP. WT.	47.15	52.75	0.10	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 144 - FRENCH CREEK
SAMPLE NUMBERS: 120
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 21/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	16	60	9	1	0	0	0	0	0	14	100
% AT AGE	0.00	18.60	69.77	10.47	1.16	0.00	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	164.38	187.78	197.89	213.00	0.00	0.00	0.00	0.00	0.00	179.21	184.00
- STD. DEV.	0.00	8.69	10.28	6.58	0.00	0.00	0.00	0.00	0.00	0.00	17.04	14.71
WEIGHT - MEAN(gm)	0.00	53.75	88.95	106.44	115.00	0.00	0.00	0.00	0.00	0.00	75.21	83.23
- STD. DEV.	0.00	9.81	16.53	16.62	0.00	0.00	0.00	0.00	0.00	0.00	26.05	22.75

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	3	4	4	58	29	0	0	0	2
% AT STAGE	3.00	4.00	4.00	58.00	29.00	0.00	0.00	0.00	2.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	61	0	0	61
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	17.15	0.00	0.00	17.15

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	34	61	5	100
%	34.00	61.00	5.00	100.00
MEAN WEIGHT	76.74	89.67	48.80	83.23
% SAMP. WT.	31.35	65.72	2.93	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 152 - LUND
SAMPLE NUMBERS: 106, 38, 63, 54
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 24/86 - MAR 16/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	86	47	126	60	19	6	6	0	0	0	28	378
% AT AGE	24.57	13.43	36.00	17.14	5.43	1.71	1.71	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	101.74	159.34	180.26	194.58	204.42	201.17	209.67	0.00	0.00	0.00	169.00	163.25
- STD. DEV.	5.81	9.05	9.57	10.19	8.39	5.00	10.21	0.00	0.00	0.00	35.77	37.73
WEIGHT - MEAN(gm)	11.19	51.74	76.17	103.60	124.47	115.17	126.33	0.00	0.00	0.00	74.00	66.38
- STD. DEV.	2.27	10.25	15.34	22.44	21.48	22.27	20.45	0.00	0.00	0.00	40.67	39.59

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	98	22	6	139	63	0	50	0	0
% AT STAGE	25.93	5.82	1.59	36.77	16.67	0.00	13.23	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	115	9	12	136
%	84.56	6.62	8.82	100.00
% SAMPLE WEIGHT	15.65	1.97	0.10	17.72

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	145	136	97	378
%	38.36	35.98	25.66	100.00
MEAN WEIGHT	81.59	87.87	13.54	66.38
% SAMP. WT.	47.14	47.62	5.23	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 162 - STILLWATER
SAMPLE NUMBERS: 80, 56, 81,357, 66,122, 62, 35
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 22/86 - MAR 4/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	32	322	246	82	28	5	1	0	0	82	798
% AT AGE	0.00	4.47	44.97	34.36	11.45	3.91	0.70	0.14	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	164.13	182.19	194.56	201.12	210.39	215.20	212.00	0.00	0.00	188.16	189.07
- STD. DEV.	0.00	9.74	8.90	9.11	8.88	8.27	11.37	0.00	0.00	0.00	15.83	13.68
WEIGHT - MEAN(gm)	0.00	58.25	81.90	103.19	116.95	136.93	150.80	128.00	0.00	0.00	97.48	95.14
- STD. DEV.	0.00	10.82	14.28	17.30	19.62	17.89	28.33	0.00	0.00	0.00	22.49	23.69

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	7	3	527	260	0	0	0	1
% AT STAGE	0.00	0.88	0.38	66.04	32.58	0.00	0.00	0.00	0.13

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	373	24	0	397
%	93.95	6.05	0.00	100.00
% SAMPLE WEIGHT	19.45	1.62	0.00	21.07

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	400	397	1	798
%	50.13	49.75	0.13	100.00
MEAN WEIGHT	90.51	99.80	95.00	95.14
% SAMP. WT.	47.69	52.19	0.13	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 163 - PENDER HARBOUR
SAMPLE NUMBERS: 355
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 22/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	5	46	30	7	1	1	0	0	0	9	99
% AT AGE	0.00	5.56	51.11	33.33	7.78	1.11	1.11	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	166.20	181.15	191.53	201.29	189.00	204.00	0.00	0.00	0.00	185.78	185.70
- STD. DEV.	0.00	10.06	9.39	9.54	14.30	0.00	0.00	0.00	0.00	0.00	10.21	12.37
WEIGHT - MEAN(gm)	0.00	67.80	88.85	107.10	128.57	110.00	144.00	0.00	0.00	0.00	98.22	97.75
- STD. DEV.	0.00	15.58	15.08	16.81	30.45	0.00	0.00	0.00	0.00	0.00	14.91	21.77

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	1	69	29	0	0	0	0
% AT STAGE	0.00	0.00	1.01	69.70	29.29	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	42	3	0	45
%	93.33	6.67	0.00	100.00
% SAMPLE WEIGHT	22.10	1.88	0.00	23.98

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	54	45	0	99
%	54.55	45.45	0.00	100.00
MEAN WEIGHT	91.54	105.20	0.00	97.75
% SAMP. WT.	51.08	48.92	0.00	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 171 - OTHER AREA 17
SAMPLE NUMBERS: 27, 74, 94,117, 13,350
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 22/86 - MAR 13/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	117	269	83	38	11	6	2	2	0	67	595
% AT AGE	0.00	22.16	50.95	15.72	7.20	2.08	1.14	0.38	0.38	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	170.77	186.96	201.95	212.76	221.18	232.50	237.00	243.00	0.00	192.94	189.64
- STD. DEV.	0.00	9.02	10.03	9.69	11.33	8.93	7.69	7.07	11.31	0.00	20.16	17.71
WEIGHT - MEAN(gm)	0.00	66.26	90.51	118.47	140.18	157.55	186.67	204.50	205.50	0.00	104.07	97.32
- STD. DEV.	0.00	11.88	16.72	19.87	25.40	22.88	21.72	23.33	27.58	0.00	36.81	32.19

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	1	20	46	392	135	1	0	0	0
% AT STAGE	0.17	3.36	7.73	65.88	22.69	0.17	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	262	57	0	319
%	82.13	17.87	0.00	100.00
% SAMPLE WEIGHT	14.89	4.03	0.00	18.92

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	273	319	3	595
%	45.88	53.61	0.50	100.00
MEAN WEIGHT	89.52	104.39	55.67	97.32
% SAMP. WT.	42.21	57.51	0.29	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 172 - NANOOSE BAY
SAMPLE NUMBERS: 12, 51, 41, 26,114, 14, 89,352
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 21/86 - MAR 16/86

SPECIMENS AT EACH AGE:

	AGE 1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	138	442	89	27	6	2	3	0	0	93	800
% AT AGE	0.00	19.52	62.52	12.59	3.82	0.85	0.28	0.42	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	170.54	184.05	200.39	212.37	221.83	231.00	227.33	0.00	0.00	182.44	184.87
- STD. DEV.	0.00	11.34	13.64	11.60	11.74	13.59	7.07	19.35	0.00	0.00	19.66	17.38
WEIGHT - MEAN(gm)	0.00	67.03	85.88	112.34	138.22	161.00	190.00	189.00	0.00	0.00	86.28	88.59
- STD. DEV.	0.00	13.84	18.93	21.15	27.30	35.69	4.24	19.70	0.00	0.00	28.46	27.21

HJORT MATURITY STAGES:

	MATURITY STAGE 1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	8	6	471	314	0	1	0	0
% AT STAGE	0.00	1.00	0.75	58.88	39.25	0.00	0.13	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	315	93	1	409
%	77.02	22.74	0.24	100.00
% SAMPLE WEIGHT	14.93	6.32	0.00	21.25

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	391	409	0	800
%	48.88	51.13	0.00	100.00
MEAN WEIGHT	85.39	91.65	0.00	88.59
% SAMP. WT.	47.11	52.89	0.00	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 173 - YELLOW POINT
SAMPLE NUMBERS: 115,338,337, 25, 7, 73, 11, 71
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 22/86 - MAR 15/86

SPECIMENS AT EACH AGE:

	AGE 1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	99	464	114	32	11	5	0	0	0	73	798
% AT AGE	0.00	13.66	64.00	15.72	4.41	1.52	0.69	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	172.24	186.27	203.09	209.59	229.00	231.80	0.00	0.00	0.00	189.53	189.04
- STD. DEV.	0.00	10.22	12.78	9.13	14.03	7.10	9.42	0.00	0.00	0.00	19.80	16.80
WEIGHT - MEAN(gm)	0.00	69.79	90.20	121.98	138.69	176.73	179.20	0.00	0.00	0.00	99.36	96.74
- STD. DEV.	0.00	12.03	19.01	18.73	28.50	15.33	18.86	0.00	0.00	0.00	36.27	29.00

HJORT MATURITY STAGES:

	MATURITY STAGE 1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	1	2	460	331	1	3	0	0
% AT STAGE	0.00	0.13	0.25	57.64	41.48	0.13	0.38	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	232	139	3	374
%	62.03	37.17	0.80	100.00
% SAMPLE WEIGHT	12.06	10.07	0.01	22.14

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	424	374	0	798
%	53.13	46.87	0.00	100.00
MEAN WEIGHT	92.14	101.95	0.00	96.74
% SAMP. WT.	50.61	49.39	0.00	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 181 - OTHER AREA 18
SAMPLE NUMBERS: 113, 238
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 22/86 - FEB 26/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	48	97	28	4	1	2	0	0	0	20	200
% AT AGE	0.00	26.67	53.89	15.56	2.22	0.56	1.11	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	175.79	189.48	202.82	214.50	226.00	242.00	0.00	0.00	0.00	188.20	189.15
- STD. DEV.	0.00	6.92	10.47	9.74	11.27	0.00	11.31	0.00	0.00	0.00	14.76	14.76
WEIGHT - MEAN(gm)	0.00	75.46	96.12	119.61	153.00	185.00	194.00	0.00	0.00	0.00	93.80	96.78
- STD. DEV.	0.00	12.57	18.34	18.37	33.04	0.00	9.90	0.00	0.00	0.00	25.12	26.54

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	8	4	141	45	0	0	0	2
% AT STAGE	0.00	4.00	2.00	70.50	22.50	0.00	0.00	0.00	1.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	106	0	0	106
%	100.00	0.00	0.00	100.00
% SAMPLE WEIGHT	18.53	0.00	0.00	18.53

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	89	106	5	200
%	44.50	53.00	2.50	100.00
MEAN WEIGHT	90.40	102.92	80.00	96.78
% SAMP. WT.	41.57	56.36	2.07	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 182 - GANGES HARBOUR
SAMPLE NUMBERS: 28
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 3/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	15	53	13	0	3	0	0	0	0	16	100
% AT AGE	0.00	17.86	63.10	15.48	0.00	3.57	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	170.27	186.11	196.00	0.00	218.33	0.00	0.00	0.00	0.00	183.94	185.64
- STD. DEV.	0.00	13.10	13.95	18.64	0.00	1.53	0.00	0.00	0.00	0.00	18.18	17.37
WEIGHT - MEAN(gm)	0.00	70.33	95.94	110.77	0.00	162.33	0.00	0.00	0.00	0.00	91.88	95.37
- STD. DEV.	0.00	16.17	21.71	32.71	0.00	7.77	0.00	0.00	0.00	0.00	28.18	28.28

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	1	1	48	50	0	0	0	0
% AT STAGE	0.00	1.00	1.00	48.00	50.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	37	17	0	54
%	68.52	31.48	0.00	100.00
% SAMPLE WEIGHT	14.74	7.78	0.00	22.52

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	46	54	0	100
%	46.00	54.00	0.00	100.00
MEAN WEIGHT	92.74	97.61	0.00	95.37
% SAMP. WT.	44.73	55.27	0.00	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 185 - SAANICH INLET
SAMPLE NUMBERS: 52
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 23/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	31	56	5	0	0	0	0	0	0	8	100
% AT AGE	0.00	33.70	60.87	5.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	166.74	183.93	194.40	0.00	0.00	0.00	0.00	0.00	0.00	179.75	178.79
- STD. DEV.	0.00	10.28	13.20	7.99	0.00	0.00	0.00	0.00	0.00	0.00	11.83	14.63
WEIGHT - MEAN(gm)	0.00	66.74	92.07	113.80	0.00	0.00	0.00	0.00	0.00	0.00	81.75	84.48
- STD. DEV.	0.00	14.16	20.93	11.39	0.00	0.00	0.00	0.00	0.00	0.00	13.59	22.31

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	8	2	59	31	0	0	0	0
% AT STAGE	0.00	8.00	2.00	59.00	31.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	65	1	0	66
%	98.48	1.52	0.00	100.00
% SAMPLE WEIGHT	15.61	0.18	0.00	15.79

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	34	66	0	100
%	34.00	66.00	0.00	100.00
MEAN WEIGHT	85.53	83.94	0.00	84.48
% SAMP. WT.	34.42	65.58	0.00	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 231 - OTHER AREA 23
SAMPLE NUMBERS: 65,118, 96
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 26/86 - MAR 6/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	29	129	62	28	12	7	6	2	0	25	300
% AT AGE	0.00	10.55	46.91	22.55	10.18	4.36	2.55	2.18	0.73	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	163.03	189.09	207.13	218.14	226.25	235.00	231.67	227.00	0.00	200.08	197.59
- STD. DEV.	0.00	7.58	13.10	10.47	10.64	7.01	4.73	10.67	0.00	0.00	25.18	21.62
WEIGHT - MEAN(gm)	0.00	57.28	99.87	134.35	162.93	182.00	203.14	195.17	195.50	0.00	127.72	119.32
- STD. DEV.	0.00	8.92	24.30	25.25	31.69	25.71	20.01	40.23	19.09	0.00	50.91	44.65

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	3	13	159	123	1	0	0	1
% AT STAGE	0.00	1.00	4.33	53.00	41.00	0.33	0.00	0.00	0.33

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	87	96	0	183
%	47.54	52.46	0.00	100.00
% SAMPLE WEIGHT	7.18	18.44	0.00	25.62

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	115	183	1	299
%	38.46	61.20	0.33	100.00
MEAN WEIGHT	107.68	126.82	48.00	119.19
% SAMP. WT.	34.75	65.12	0.13	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 232 - MACOAH PASS
SAMPLE NUMBERS: 78, 31, 87, 79, 20, 124, 84, 68, 40, 30, 90, 86, 18, 123, 83, 67, 93, 85, 97, 29, 95, 75, 17, 37, 23
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 27/86 - MAR 18/86

SPECIMENS AT EACH AGE:

	AGE 1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	50	1056	664	262	92	72	53	19	3	229	2500
% AT AGE	0.00	2.20	46.50	29.24	11.54	4.05	3.17	2.33	0.84	0.13	0.00	100.00
LENGTH - MEAN(mm)	0.00	174.64	194.58	208.71	220.37	228.38	233.01	235.36	238.68	247.33	203.92	205.11
- STD. DEV.	0.00	11.81	9.84	9.49	8.90	8.80	8.93	8.07	7.63	4.73	16.26	16.51
WEIGHT - MEAN(gm)	0.00	72.68	104.89	133.48	161.24	179.86	191.03	199.15	206.26	221.67	123.48	127.60
- STD. DEV.	0.00	18.41	31.61	22.11	24.46	25.51	27.58	27.69	27.33	18.50	33.76	39.78

HJORT MATURITY STAGES:

	MATURITY STAGE 1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	4	1	697	1782	4	12	0	0
% AT STAGE	0.00	0.16	0.04	27.88	71.28	0.16	0.48	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	348	1002	8	1358
%	25.63	73.78	0.59	100.00
% SAMPLE WEIGHT	5.21	22.70	0.00	27.91

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	1142	1358	0	2500
%	45.68	54.32	0.00	100.00
MEAN WEIGHT	120.92	133.21	0.00	127.60
% SAMP. WT.	43.29	56.71	0.00	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 233 - MAYNE BAY
SAMPLE NUMBERS: 70, 24,100, 61
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 28/86 - MAR 10/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	31	186	57	14	5	4	4	0	0	57	358
% AT AGE	0.00	10.30	61.79	18.94	4.65	1.66	1.33	1.33	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	170.65	188.14	205.54	221.79	227.20	238.50	234.25	0.00	0.00	184.00	191.68
- STD. DEV.	0.00	9.54	11.33	11.57	8.97	6.98	9.85	14.24	0.00	0.00	20.00	18.63
WEIGHT - MEAN(gm)	0.00	69.71	93.98	127.07	157.36	176.80	194.50	208.25	0.00	0.00	90.33	102.60
- STD. DEV.	0.00	13.71	17.79	20.85	23.57	28.40	35.82	65.94	0.00	0.00	31.00	33.79

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	3	26	177	151	0	0	0	1
% AT STAGE	0.00	0.84	7.26	49.44	42.18	0.00	0.00	0.00	0.28

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	126	57	0	183
%	68.85	31.15	0.00	100.00
% SAMPLE WEIGHT	12.54	10.17	0.00	22.71

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	174	183	1	358
%	48.60	51.12	0.28	100.00
MEAN WEIGHT	101.08	104.25	67.00	102.60
% SAMP. WT.	47.88	51.94	0.18	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 242 - HESQUIAT HARBOUR
SAMPLE NUMBERS: 82
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 2/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	2	41	25	11	9	1	4	2	0	5	100
% AT AGE	0.00	2.11	43.16	26.32	11.58	9.47	1.05	4.21	2.11	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	191.50	195.20	206.68	221.09	230.56	233.00	236.75	235.50	0.00	207.40	207.48
- STD. DEV.	0.00	4.95	10.10	9.43	6.69	6.62	0.00	3.10	4.95	0.00	13.99	16.54
WEIGHT - MEAN(gm)	0.00	95.00	116.63	138.76	175.36	199.11	243.00	189.25	214.50	0.00	146.60	143.24
- STD. DEV.	0.00	11.31	20.41	26.36	23.02	26.86	0.00	19.05	3.54	0.00	36.66	39.35

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	32	68	0	0	0	0
% AT STAGE	0.00	0.00	0.00	32.00	68.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	3	48	0	51
%	5.88	94.12	0.00	100.00
% SAMPLE WEIGHT	1.01	28.71	0.00	29.72

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	49	51	0	100
%	49.00	51.00	0.00	100.00
MEAN WEIGHT	134.67	151.47	0.00	143.24
% SAMP. WT.	46.07	53.93	0.00	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 243 - SYDNEY INLET
SAMPLE NUMBERS: 110,121
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 13/86 - MAR 17/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	19	113	42	8	3	0	0	0	0	15	200
% AT AGE	0.00	10.27	61.08	22.70	4.32	1.62	0.00	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	160.53	188.86	202.67	215.63	216.33	0.00	0.00	0.00	0.00	189.20	190.57
- STD. DEV.	0.00	7.38	10.12	8.95	13.88	11.59	0.00	0.00	0.00	0.00	19.76	16.39
WEIGHT - MEAN(gm)	0.00	57.84	96.16	124.07	145.88	156.00	0.00	0.00	0.00	0.00	100.53	101.60
- STD. DEV.	0.00	8.80	16.82	22.44	30.99	39.66	0.00	0.00	0.00	0.00	30.02	28.51

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	2	4	77	117	0	0	0	0
% AT STAGE	0.00	1.00	2.00	38.50	58.50	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	18	67	0	85
%	21.18	78.82	0.00	100.00
% SAMPLE WEIGHT	3.53	22.90	0.00	26.43

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	115	85	0	200
%	57.50	42.50	0.00	100.00
MEAN WEIGHT	95.40	109.98	0.00	101.60
% SAMP. WT.	53.99	46.01	0.00	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 252 - WEST NOOTKA
SAMPLE NUMBERS: 76, 36, 77,112
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 22/86 - MAR 7/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	20	274	76	6	2	1	1	0	0	20	400
% AT AGE	0.00	5.26	72.11	20.00	1.58	0.53	0.26	0.26	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	175.40	192.07	199.97	207.67	220.50	224.00	227.00	0.00	0.00	189.10	193.13
- STD. DEV.	0.00	14.84	8.97	8.54	13.49	20.51	0.00	0.00	0.00	0.00	11.42	11.28
WEIGHT - MEAN(gm)	0.00	76.90	101.67	117.53	128.83	165.00	151.00	183.00	0.00	0.00	100.05	104.41
- STD. DEV.	0.00	21.47	17.11	18.33	30.54	53.74	0.00	0.00	0.00	0.00	18.49	21.11

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	1	284	114	0	1	0	0
% AT STAGE	0.00	0.00	0.25	71.00	28.50	0.00	0.25	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	171	59	0	230
%	74.35	25.65	0.00	100.00
% SAMPLE WEIGHT	16.68	6.00	0.00	22.67

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	170	230	0	400
%	42.50	57.50	0.00	100.00
MEAN WEIGHT	100.70	107.16	0.00	104.41
% SAMP. WT.	40.99	59.01	0.00	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 253 - NUCHATLITZ INLET
SAMPLE NUMBERS: 49, 43, 92, 44,119,111, 47
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 24/86 - MAR 17/86

SPECIMENS AT EACH AGE:

	AGE 1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	6	295	307	15	7	8	5	1	0	56	700
% AT AGE	0.00	0.93	45.81	47.67	2.33	1.09	1.24	0.78	0.16	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	174.00	195.46	205.64	212.40	225.29	229.13	234.60	235.00	0.00	198.52	201.37
- STD. DEV.	0.00	8.39	10.45	8.58	10.07	4.68	6.22	5.37	0.00	0.00	12.44	12.26
WEIGHT - MEAN(gm)	0.00	74.00	106.96	129.75	146.53	186.86	187.88	216.60	169.00	0.00	115.84	120.82
- STD. DEV.	0.00	10.04	19.21	23.89	26.71	26.82	30.41	42.65	0.00	0.00	31.08	28.93

HJORT MATURITY STAGES:

	MATURITY STAGE 1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	191	404	2	103	0	0
% AT STAGE	0.00	0.00	0.00	27.29	57.71	0.29	14.71	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	107	237	45	389
%	27.51	60.93	11.57	100.00
% SAMPLE WEIGHT	6.52	19.07	0.20	25.78

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	310	389	0	699
%	44.35	55.65	0.00	100.00
MEAN WEIGHT	111.72	128.02	0.00	120.79
% SAMP. WT.	41.02	58.98	0.00	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 261 - OTHER AREA 26
SAMPLE NUMBERS: 34
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 12/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	1	23	57	7	2	2	0	2	0	6	100
% AT AGE	0.00	1.06	24.47	60.64	7.45	2.13	2.13	0.00	2.13	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	187.00	193.91	207.32	218.00	218.50	229.00	0.00	223.00	0.00	205.50	205.64
- STD. DEV.	0.00	0.00	9.02	9.62	9.13	23.33	2.83	0.00	1.41	0.00	27.76	13.72
WEIGHT - MEAN(gm)	0.00	90.00	110.04	142.58	167.00	176.00	212.00	0.00	205.50	0.00	150.50	140.07
- STD. DEV.	0.00	0.00	16.13	24.43	25.91	70.71	21.21	0.00	26.16	0.00	64.01	34.91

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	7	87	0	6	0	0
% AT STAGE	0.00	0.00	0.00	7.00	87.00	0.00	6.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	2	58	2	62
%	3.23	93.55	3.23	100.00
% SAMPLE WEIGHT	0.44	28.30	0.10	28.83

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	38	62	0	100
%	38.00	62.00	0.00	100.00
MEAN WEIGHT	127.03	148.06	0.00	140.07
% SAMP. WT.	34.46	65.54	0.00	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 272 - BROOKS BAY
SAMPLE NUMBERS: 50, 46
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 6/86 - MAR 9/86

SPECIMENS AT EACH AGE:

	AGE 1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	4	32	120	5	2	2	5	5	0	24	199
% AT AGE	0.00	2.29	18.29	68.57	2.86	1.14	1.14	2.86	2.86	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	162.50	194.19	202.76	209.40	220.50	216.00	225.80	235.00	0.00	202.50	202.41
- STD. DEV.	0.00	3.51	5.67	8.41	15.31	4.95	2.83	5.22	7.84	0.00	14.04	12.94
WEIGHT - MEAN(gm)	0.00	65.00	116.44	139.23	157.60	192.00	179.50	199.60	225.20	0.00	138.88	139.11
- STD. DEV.	0.00	10.23	14.94	22.66	39.58	12.73	12.02	20.31	22.65	0.00	37.09	32.92

HJORT MATURITY STAGES:

	MATURITY STAGE 1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	19	180	0	0	0	0
% AT STAGE	0.00	0.00	0.00	9.55	90.45	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	8	106	0	114
%	7.02	92.98	0.00	100.00
% SAMPLE WEIGHT	1.60	29.12	0.00	30.72

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	85	114	0	199
%	42.71	57.29	0.00	100.00
MEAN WEIGHT	129.96	145.92	0.00	139.11
% SAMP. WT.	39.91	60.09	0.00	100.00

TABLE 14 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY SECTION

SECTION: 273 - WINTER HARBOUR
SAMPLE NUMBERS: 42
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 6/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	2	32	52	2	2	3	2	1	0	4	100
% AT AGE	0.00	2.08	33.33	54.17	2.08	2.08	3.13	2.08	1.04	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	169.50	192.00	201.40	205.00	210.50	231.33	226.50	228.00	0.00	190.75	199.25
- STD. DEV.	0.00	2.12	9.61	8.09	12.73	19.09	8.08	4.95	0.00	0.00	19.92	13.40
WEIGHT - MEAN(gm)	0.00	73.50	111.28	133.62	152.00	199.50	221.67	196.50	234.00	0.00	119.00	131.27
- STD. DEV.	0.00	3.54	18.22	20.83	35.36	3.54	32.81	23.33	0.00	0.00	55.09	34.76

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	29	71	0	0	0	0
% AT STAGE	0.00	0.00	0.00	29.00	71.00	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	5	37	0	42
%	11.90	88.10	0.00	100.00
% SAMPLE WEIGHT	2.96	27.06	0.00	30.02

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	58	42	0	100
%	58.00	42.00	0.00	100.00
MEAN WEIGHT	119.17	147.98	0.00	131.27
% SAMP. WT.	52.65	47.35	0.00	100.00

TABLE 15 PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 2W - WEST COAST Q.C.I.
SAMPLE NUMBERS: 274, 271, 275, 345, 314, 306
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 3/86 - MAR 14/86

SPECIMENS AT EACH AGE:

	AGE 1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	99	2	42	43	20	76	27	152	2	27	490
% AT AGE	0.00	21.38	0.43	9.07	9.29	4.32	16.41	5.83	32.83	0.43	0.00	100.00
LENGTH - MEAN(mm)	0.00	170.72	198.50	219.52	225.02	233.35	240.39	246.37	245.56	244.50	231.52	224.18
- STD. DEV.	0.00	6.03	17.68	8.54	7.08	12.87	8.01	6.65	8.05	2.12	23.11	29.78
WEIGHT - MEAN(gm)	0.00	69.83	103.50	149.00	162.35	184.25	211.62	226.96	231.45	207.00	188.81	177.44
- STD. DEV.	0.00	9.41	17.68	23.64	18.08	34.31	29.54	28.45	35.02	4.24	52.41	67.33

HJORT MATURITY STAGES:

	MATURITY STAGE 1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	14	0	309	147	19	1	0	0
% AT STAGE	0.00	2.86	0.00	63.06	30.00	3.88	0.20	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	227	82	0	309
%	73.46	26.54	0.00	100.00
% SAMPLE WEIGHT	15.14	9.91	0.00	25.05

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	170	309	11	490
%	34.69	63.06	2.24	100.00
MEAN WEIGHT	162.22	189.72	67.73	177.44
% SAMP. WT.	31.72	67.43	0.86	100.00

TABLE 15 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 2E - EAST COAST Q.C.I.
SAMPLE NUMBERS: 323, 328, 303, 290, 315, 278, 346, 292, 245, 317, 313, 322, 327, 319, 305, 325, 344, 308, 302, 311, 340, 316, 324, 341, 240, 280, 300, 307, 301, 334, 336, 309, 312, 320, 326, 318, 304
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 4/86 - MAR 31/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	82	10	101	743	1328	134	95	261	616	10	274	3654
% AT AGE	2.43	0.30	2.99	21.98	39.29	3.96	2.81	7.72	18.22	0.30	0.00	100.00
LENGTH - MEAN(mm)	109.72	170.70	194.97	209.10	215.78	220.51	225.71	227.80	232.29	245.40	213.88	215.36
- STD. DEV.	12.19	13.64	7.27	7.62	8.80	8.64	8.87	9.43	9.57	11.32	25.96	21.53
WEIGHT - MEAN(gm)	14.06	72.10	113.05	140.06	158.57	169.40	182.59	188.28	202.52	235.70	158.76	160.85
- STD. DEV.	3.74	20.46	13.56	18.80	23.48	24.64	28.67	27.10	28.66	32.09	47.12	41.42

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	1	5	4	648	2754	148	0	0	94
% AT STAGE	0.03	0.14	0.11	17.73	75.37	4.05	0.00	0.00	2.57

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	488	1293	0	1781
%	27.40	72.60	0.00	100.00
% SAMPLE WEIGHT	6.59	21.98	0.00	28.57

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	1778	1781	95	3654
%	48.66	48.74	2.60	100.00
MEAN WEIGHT	154.06	175.43	14.35	160.85
% SAMP. WT.	46.61	53.16	0.23	100.00

TABLE 15 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 3 - NASS
SAMPLE NUMBERS: 284, 211, 226, 294, 233, 299, 295, 335, 287, 220, 230, 207, 231, 215, 224
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 14/86 - MAR 31/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	6	246	116	699	185	68	42	15	0	123	1500
% AT AGE	0.00	0.44	17.86	8.42	50.76	13.44	4.94	3.05	1.09	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	161.50	183.95	195.47	205.72	210.36	216.21	220.29	226.73	0.00	205.31	202.81
- STD. DEV.	0.00	4.85	9.79	9.12	9.02	9.23	8.33	9.31	9.19	0.00	16.37	14.20
WEIGHT - MEAN(gm)	0.00	50.00	85.84	107.20	129.13	137.68	154.97	161.31	171.40	0.00	129.08	123.56
- STD. DEV.	0.00	5.62	16.66	18.80	21.81	21.57	21.84	28.05	29.47	0.00	33.22	30.29

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	1	77	578	809	31	2	0	2
% AT STAGE	0.00	0.07	5.13	38.53	53.93	2.07	0.13	0.00	0.13

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	496	263	0	759
%	65.35	34.65	0.00	100.00
% SAMPLE WEIGHT	13.84	10.66	0.00	24.50

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	738	759	3	1500
%	49.20	50.60	0.20	100.00
MEAN WEIGHT	119.03	128.28	45.00	123.56
% SAMP. WT.	47.39	52.53	0.07	100.00

TABLE 15 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 4 - SKEENA
SAMPLE NUMBERS: 249, 277, 223 212, 281, 283, 273, 210
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 24/86 - APR 8/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	30	80	58	343	106	44	47	15	1	76	800
% AT AGE	0.00	4.14	11.05	8.01	47.38	14.64	6.08	6.49	2.07	0.14	0.00	100.00
LENGTH - MEAN(mm)	0.00	152.87	185.52	197.41	207.45	211.45	218.59	221.09	229.67	229.00	203.54	204.50
- STD. DEV.	0.00	9.14	9.94	9.31	8.43	8.15	11.03	8.74	7.81	0.00	21.11	17.38
WEIGHT - MEAN(gm)	0.00	44.53	91.07	115.14	137.75	146.90	160.32	167.23	193.67	211.00	127.30	132.28
- STD. DEV.	0.00	10.05	16.36	16.86	19.36	23.13	28.05	23.33	22.95	0.00	37.74	34.86

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	33	9	128	625	5	0	0	0
% AT STAGE	0.00	4.13	1.13	16.00	78.13	0.63	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	85	308	0	393
%	21.63	78.37	0.00	100.00
% SAMPLE WEIGHT	3.35	23.39	0.00	26.74

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	390	393	17	800
%	48.75	49.13	2.13	100.00
MEAN WEIGHT	128.95	139.37	44.59	132.28
% SAMP. WT.	47.52	51.76	0.72	100.00

TABLE 15 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 5 - GRENVILLE-PRINCIPE
SAMPLE NUMBERS: 209, 222, 218, 333, 264, 232, 234, 228, 204, 227, 244, 229, 205, 208, 353, 206, 221, 216, 225
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 18/86 - APR 11/86

SPECIMENS AT EACH AGE:

	AGE 1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	18	196	163	796	160	86	170	145	3	160	1897
% AT AGE	0.00	1.04	11.28	9.38	45.83	9.21	4.95	9.79	8.35	0.17	0.00	100.00
LENGTH - MEAN(mm)	0.00	165.56	187.05	201.15	207.96	213.29	217.66	219.46	224.63	230.67	207.31	207.99
- STD. DEV.	0.00	11.34	8.96	8.87	9.01	8.73	8.98	8.64	9.16	6.35	15.52	14.15
WEIGHT - MEAN(gm)	0.00	65.61	98.32	125.27	142.61	155.42	162.03	169.99	182.41	201.00	142.27	143.33
- STD. DEV.	0.00	14.63	17.91	21.55	21.99	22.04	22.83	23.62	26.00	18.08	35.08	32.49

HJORT MATURITY STAGES:

	MATURITY STAGE 1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	172	1612	105	8	0	0
% AT STAGE	0.00	0.00	0.00	9.07	84.98	5.54	0.42	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	93	898	3	994
%	9.36	90.34	0.30	100.00
% SAMPLE WEIGHT	2.37	27.43	0.01	29.81

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	902	994	0	1896
%	47.57	52.43	0.00	100.00
MEAN WEIGHT	133.81	151.92	0.00	143.31
% SAMP. WT.	44.42	55.58	0.00	100.00

TABLE 15 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 6 - BUTEDALE
SAMPLE NUMBERS: 164, 127, 146, 167, 172, 149, 150
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 4/86 - MAR 28/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	8	84	256	65	36	41	40	90	2	45	667
% AT AGE	0.00	1.29	13.50	41.16	10.45	5.79	6.59	6.43	14.47	0.32	0.00	100.00
LENGTH - MEAN(mm)	0.00	166.88	189.77	201.04	209.02	208.14	214.80	215.73	219.50	215.50	204.89	204.89
- STD. DEV.	0.00	6.22	9.28	8.71	8.40	10.41	9.28	10.10	10.38	0.71	17.33	13.95
WEIGHT - MEAN(gm)	0.00	64.00	103.55	123.54	139.94	138.06	157.17	157.05	166.47	150.00	137.40	133.57
- STD. DEV.	0.00	12.80	14.53	18.09	16.55	23.09	24.76	26.64	27.61	19.80	34.11	29.94

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	1	18	460	185	2	0	0	1
% AT STAGE	0.00	0.15	2.70	68.97	27.74	0.30	0.00	0.00	0.15

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	288	44	0	332
%	86.75	13.25	0.00	100.00
% SAMPLE WEIGHT	19.07	3.95	0.00	23.02

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	333	332	2	667
%	49.93	49.78	0.30	100.00
MEAN WEIGHT	126.71	140.90	58.50	133.57
% SAMP. WT.	47.36	52.51	0.13	100.00

TABLE 15 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 7 - BELLA BELLA
SAMPLE NUMBERS: 129, 136, 153, 171, 144, 145, 154, 166, 137, 141, 125, 126, 356, 142, 155, 138, 130, 152, 143, 170, 158, 165, 162, 347, 160, 147, 156, 139, 168, 148, 157, 140, 169, 339, 354, 132, 131, 163, 159, 348, 135, 128
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 1/86 - APR 3/86

SPECIMENS AT EACH AGE:

	AGE 1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	289	630	1519	274	256	267	233	355	23	304	4150
% AT AGE	0.00	7.51	16.38	39.50	7.12	6.66	6.94	6.06	9.23	0.60	0.00	100.00
LENGTH - MEAN(mm)	0.00	160.45	186.77	201.79	208.44	214.93	219.33	222.91	225.74	229.35	204.64	202.61
- STD. DEV.	0.00	11.46	10.50	9.82	10.20	11.09	11.87	10.83	10.02	10.47	21.26	19.96
WEIGHT - MEAN(gm)	0.00	57.42	98.64	129.25	145.27	161.44	172.17	181.97	190.54	206.91	139.83	134.81
- STD. DEV.	0.00	19.01	18.76	21.63	26.34	30.21	30.36	33.44	31.91	29.05	46.55	43.72

HJORT MATURITY STAGES:

	MATURITY STAGE 1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	3	62	55	1854	2060	45	14	0	57
% AT STAGE	0.07	1.49	1.33	44.67	49.64	1.08	0.34	0.00	1.37

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	1304	848	2	2154
%	60.54	39.37	0.09	100.00
% SAMPLE WEIGHT	13.40	11.90	0.00	25.31

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	1927	2154	69	4150
%	46.43	51.90	1.66	100.00
MEAN WEIGHT	128.30	143.47	46.36	134.81
% SAMP. WT.	44.19	55.24	0.57	100.00

TABLE 15 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 8 - BELLA COOLA
SAMPLE NUMBERS: 349, 134, 133
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 17/86 - APR 3/86

SPECIMENS AT EACH AGE:

	AGE 1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	19	86	131	9	16	9	6	2	0	21	299
% AT AGE	0.00	6.83	30.94	47.12	3.24	5.76	3.24	2.16	0.72	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	161.84	182.64	194.44	199.67	207.88	215.44	214.33	223.50	0.00	197.52	191.29
- STD. DEV.	0.00	11.55	7.58	10.42	9.58	13.40	18.80	4.63	0.71	0.00	15.97	15.70
WEIGHT - MEAN(gm)	0.00	61.16	89.69	112.34	119.00	137.38	156.33	146.17	194.00	0.00	116.81	106.98
- STD. DEV.	0.00	10.85	13.30	21.04	21.49	25.98	42.78	16.07	11.31	0.00	31.59	29.44

HJORT MATURITY STAGES:

	MATURITY STAGE 1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	1	1	58	217	17	4	0	1
% AT STAGE	0.00	0.33	0.33	19.40	72.58	5.69	1.34	0.00	0.33

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	42	93	2	137
%	30.66	67.88	1.46	100.00
% SAMPLE WEIGHT	7.02	20.15	0.04	27.21

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	161	137	1	299
%	53.85	45.82	0.33	100.00
MEAN WEIGHT	101.42	113.97	44.00	106.98
% SAMP. WT.	51.05	48.82	0.14	100.00

TABLE 15 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 12 - ALERT BAY
SAMPLE NUMBERS: 104, 105
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 18/86 - MAR 21/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	103	19	60	1	5	2	0	0	0	10	200
% AT AGE	0.00	54.21	10.00	31.58	0.53	2.63	1.05	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	160.97	158.95	165.65	171.00	180.60	191.00	0.00	0.00	0.00	161.50	163.05
- STD. DEV.	0.00	7.15	10.66	9.65	0.00	8.62	0.00	0.00	0.00	0.00	11.50	9.67
WEIGHT - MEAN(gm)	0.00	52.62	53.68	66.23	76.00	86.20	107.50	0.00	0.00	0.00	59.30	58.65
- STD. DEV.	0.00	8.13	10.92	13.09	0.00	17.43	3.54	0.00	0.00	0.00	14.94	13.96

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	12	77	2	71	34	0	0	0	4
% AT STAGE	6.00	38.50	1.00	35.50	17.00	0.00	0.00	0.00	2.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	104	1	0	105
%	99.05	0.95	0.00	100.00
% SAMPLE WEIGHT	10.64	0.24	0.00	10.88

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	78	105	17	200
%	39.00	52.50	8.50	100.00
MEAN WEIGHT	58.83	60.06	49.06	58.65
% SAMP. WT.	39.13	53.76	7.11	100.00

TABLE 15 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 13 - QUATHIASKI
SAMPLE NUMBERS: 107, 55, 101, 45, 72, 358
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 25/86 - MAR 13/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	51	333	113	25	6	0	0	1	0	70	599
% AT AGE	0.00	9.64	62.95	21.36	4.73	1.13	0.00	0.00	0.19	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	159.39	177.80	187.88	192.88	207.17	0.00	0.00	224.00	0.00	179.84	179.37
- STD. DEV.	0.00	11.75	8.96	9.33	11.76	8.95	0.00	0.00	0.00	0.00	11.50	12.72
WEIGHT - MEAN(gm)	0.00	50.10	74.07	89.65	100.60	129.33	0.00	0.00	193.00	0.00	78.37	77.33
- STD. DEV.	0.00	12.21	13.99	16.05	21.39	32.60	0.00	0.00	0.00	0.00	17.69	20.07

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	7	15	12	330	231	1	2	0	1
% AT STAGE	1.17	2.50	2.00	55.09	38.56	0.17	0.33	0.00	0.17

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	229	61	2	292
%	78.42	20.89	0.68	100.00
% SAMPLE WEIGHT	13.59	5.52	0.01	19.12

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	298	292	9	599
%	49.75	48.75	1.50	100.00
MEAN WEIGHT	76.10	79.72	40.56	77.33
% SAMP. WT.	48.96	50.25	0.79	100.00

TABLE 15 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 14 - COMOX
SAMPLE NUMBERS: 10, 1, 64, 22, 8, 109, 53, 9, 21, 108, 69, 102, 58, 2, 32, 57, 48, 88, 6, 116, 99, 19, 4, 120, 91, 33, 16, 3, 98, 59
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 21/86 - MAR 24/86

SPECIMENS AT EACH AGE:

	AGE 1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	261	1511	668	170	54	21	3	2	0	308	2998
% AT AGE	0.00	9.70	56.17	24.83	6.32	2.01	0.78	0.11	0.07	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	171.03	186.19	197.94	208.46	216.94	227.24	234.67	234.50	0.00	189.53	190.02
- STD. DEV.	0.00	9.42	11.34	10.80	10.86	8.81	9.67	10.02	0.71	0.00	15.94	15.22
WEIGHT - MEAN(gm)	0.00	64.62	88.99	109.59	133.46	148.39	176.62	209.67	186.50	0.00	95.13	96.48
- STD. DEV.	0.00	13.11	18.70	21.17	25.53	24.49	24.61	35.36	16.26	0.00	26.84	27.60

HJORT MATURITY STAGES:

	MATURITY STAGE 1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	3	18	7	1188	1455	4	317	3	3
% AT STAGE	0.10	0.60	0.23	39.63	48.53	0.13	10.57	0.10	0.10

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	583	793	129	1505
%	38.74	52.69	8.57	100.00
% SAMPLE WEIGHT	8.05	14.60	0.04	22.68

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	1483	1505	9	2997
%	49.48	50.22	0.30	100.00
MEAN WEIGHT	91.05	102.09	58.56	96.50
% SAMP. WT.	46.69	53.13	0.18	100.00

TABLE 15 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 15 - WESTVIEW
SAMPLE NUMBERS: 106, 38, 63, 54
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 24/86 - MAR 16/86

SPECIMENS AT EACH AGE:

	AGE 1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	86	47	126	60	19	6	6	0	0	0	28	378
% AT AGE	24.57	13.43	36.00	17.14	5.43	1.71	1.71	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	101.74	159.34	180.26	194.58	204.42	201.17	209.67	0.00	0.00	0.00	169.00	163.25
- STD. DEV.	5.81	9.05	9.57	10.19	8.39	5.00	10.21	0.00	0.00	0.00	35.77	37.73
WEIGHT - MEAN(gm)	11.19	51.74	76.17	103.60	124.47	115.17	126.33	0.00	0.00	0.00	74.00	66.38
- STD. DEV.	2.27	10.25	15.34	22.44	21.48	22.27	20.45	0.00	0.00	0.00	40.67	39.59

HJORT MATURITY STAGES:

	MATURITY STAGE 1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	98	22	6	139	63	0	50	0	0
% AT STAGE	25.93	5.82	1.59	36.77	16.67	0.00	13.23	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	115	9	12	136
%	84.56	6.62	8.82	100.00
% SAMPLE WEIGHT	15.65	1.97	0.10	17.72

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	145	136	97	378
%	38.36	35.98	25.66	100.00
MEAN WEIGHT	81.59	87.87	13.54	66.38
% SAMP. WT.	47.14	47.62	5.23	100.00

TABLE 15 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 16 - PENDER HARBOUR
SAMPLE NUMBERS: 80, 56, 81, 357, 66, 122, 62, 35, 355
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 22/86 - MAR 4/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	37	368	276	89	29	6	1	0	0	91	897
% AT AGE	0.00	4.59	45.66	34.24	11.04	3.60	0.74	0.12	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	164.41	182.06	194.23	201.13	209.66	213.33	212.00	0.00	0.00	187.92	188.70
- STD. DEV.	0.00	9.67	8.96	9.19	9.31	9.04	11.15	0.00	0.00	0.00	15.34	13.58
WEIGHT - MEAN(gm)	0.00	59.54	82.77	103.62	117.87	136.00	149.67	128.00	0.00	0.00	97.55	95.43
- STD. DEV.	0.00	11.78	14.54	17.26	20.67	18.26	25.49	0.00	0.00	0.00	21.80	23.49

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	7	4	596	289	0	0	0	1
% AT STAGE	0.00	0.78	0.45	66.44	32.22	0.00	0.00	0.00	0.11

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	415	27	0	442
%	93.89	6.11	0.00	100.00
% SAMPLE WEIGHT	19.73	1.65	0.00	21.38

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	454	442	1	897
%	50.61	49.28	0.11	100.00
MEAN WEIGHT	90.63	100.35	95.00	95.43
% SAMP. WT.	48.07	51.82	0.11	100.00

TABLE 15 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 17 - NANAIMO
SAMPLE NUMBERS: 27, 26, 115, 338, 337, 25, 114, 14, 89, 352, 74, 94, 41, 7, 117, 51, 73, 11, 13, 12, 71, 350
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 21/86 - MAR 16/86

SPECIMENS AT EACH AGE:

	AGE 1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	354	1175	286	97	28	13	5	2	0	233	2193
% AT AGE	0.00	18.06	59.95	14.59	4.95	1.43	0.66	0.26	0.10	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	171.09	185.59	201.92	211.61	224.39	232.00	231.20	243.00	0.00	187.68	187.68
- STD. DEV.	0.00	10.31	12.61	10.15	12.35	9.83	7.66	15.09	11.31	0.00	20.26	17.38
WEIGHT - MEAN(gm)	0.00	67.55	88.64	117.96	139.14	165.82	184.31	195.20	205.50	0.00	95.49	93.92
- STD. DEV.	0.00	12.77	18.59	20.18	26.71	24.46	18.32	20.05	27.58	0.00	34.28	29.55

HJORT MATURITY STAGES:

	MATURITY STAGE 1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	1	29	54	1323	780	2	4	0	0
% AT STAGE	0.05	1.32	2.46	60.33	35.57	0.09	0.18	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	809	289	4	1102
%	73.41	26.23	0.36	100.00
% SAMPLE WEIGHT	13.91	6.93	0.00	20.85

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	1088	1102	3	2193
%	49.61	50.25	0.14	100.00
MEAN WEIGHT	89.06	98.83	55.67	93.92
% SAMP. WT.	47.04	52.88	0.08	100.00

TABLE 15 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 18 - COWICHAN
SAMPLE NUMBERS: 52, 28, 113, 238
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 22/86 - MAR 3/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	94	206	46	4	4	2	0	0	0	44	400
% AT AGE	0.00	26.40	57.87	12.92	1.12	1.12	0.56	0.00	0.00	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	171.93	187.11	199.98	214.50	220.25	242.00	0.00	0.00	0.00	185.11	185.68
- STD. DEV.	0.00	10.06	12.37	12.97	11.27	4.03	11.31	0.00	0.00	0.00	15.64	15.95
WEIGHT - MEAN(gm)	0.00	71.77	94.98	116.48	153.00	168.00	194.00	0.00	0.00	0.00	90.91	93.35
- STD. DEV.	0.00	14.13	19.95	22.70	33.04	12.99	9.90	0.00	0.00	0.00	24.61	26.45

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	17	7	248	126	0	0	0	2
% AT STAGE	0.00	4.25	1.75	62.00	31.50	0.00	0.00	0.00	0.50

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	208	18	0	226
%	92.04	7.96	0.00	100.00
% SAMPLE WEIGHT	16.87	1.93	0.00	18.80

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	169	226	5	400
%	42.25	56.50	1.25	100.00
MEAN WEIGHT	90.06	96.11	80.00	93.35
% SAMP. WT.	40.76	58.17	1.07	100.00

TABLE 15 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 23 - BARKLEY SOUND
SAMPLE NUMBERS: 24, 29, 93, 118, 85, 97, 95, 75, 40, 30, 90, 86, 18, 123, 83, 67, 61, 78, 96, 31, 87, 100, 79, 20, 124, 84, 68, 17, 65, 70, 37, 23
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 26/86 - MAR 18/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	110	1371	783	304	109	83	63	21	3	311	3158
% AT AGE	0.00	3.86	48.16	27.50	10.68	3.83	2.92	2.21	0.74	0.11	0.00	100.00
LENGTH - MEAN(mm)	0.00	170.45	193.19	208.36	220.23	228.09	233.45	234.94	237.57	247.33	199.96	202.87
- STD. DEV.	0.00	11.19	10.70	9.77	9.07	8.52	8.71	8.65	8.05	4.73	19.35	17.90
WEIGHT - MEAN(gm)	0.00	67.78	102.94	133.08	161.22	179.95	192.22	199.35	205.24	221.67	117.75	123.98
- STD. DEV.	0.00	16.31	29.70	22.32	25.09	25.42	27.33	31.48	26.47	18.50	37.19	40.43

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	10	40	1033	2056	5	12	0	2
% AT STAGE	0.00	0.32	1.27	32.71	65.10	0.16	0.38	0.00	0.06

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	561	1155	8	1724
%	32.54	67.00	0.46	100.00
% SAMPLE WEIGHT	6.04	21.18	0.00	27.23

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	1431	1724	2	3157
%	45.33	54.61	0.06	100.00
MEAN WEIGHT	117.44	129.46	57.50	123.97
% SAMP. WT.	42.94	57.03	0.03	100.00

TABLE 15 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 24 - CLAYOQUOT SOUND
SAMPLE NUMBERS: 110,121, 82
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 2/86 - MAR 17/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	21	154	67	19	12	1	4	2	0	20	300
% AT AGE	0.00	7.50	55.00	23.93	6.79	4.29	0.36	1.43	0.71	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	163.48	190.55	204.16	218.79	227.00	233.00	236.75	235.50	0.00	193.75	196.21
- STD. DEV.	0.00	11.71	10.47	9.27	10.36	9.88	0.00	3.10	4.95	0.00	19.85	18.25
WEIGHT - MEAN(gm)	0.00	61.38	101.61	129.55	162.95	188.33	243.00	189.25	214.50	0.00	112.05	115.48
- STD. DEV.	0.00	14.18	19.96	24.83	29.86	34.51	0.00	19.05	3.54	0.00	36.96	37.95

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	2	4	109	185	0	0	0	0
% AT STAGE	0.00	0.67	1.33	36.33	61.67	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	21	115	0	136
%	15.44	84.56	0.00	100.00
% SAMPLE WEIGHT	2.39	25.53	0.00	27.92

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	164	136	0	300
%	54.67	45.33	0.00	100.00
MEAN WEIGHT	107.13	125.54	0.00	115.48
% SAMP. WT.	50.72	49.28	0.00	100.00

TABLE 15 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 25 - NOOTKA SOUND
SAMPLE NUMBERS: 77, 112, 44, 92, 43, 49, 119, 76, 47, 36, 111
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: FEB 22/86 - MAR 17/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	26	569	383	21	9	9	6	1	0	76	1100
% AT AGE	0.00	2.54	55.57	37.40	2.05	0.88	0.88	0.59	0.10	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	175.08	193.83	204.52	211.05	224.22	228.56	233.33	235.00	0.00	196.04	198.37
- STD. DEV.	0.00	13.48	9.91	8.85	11.01	8.57	6.06	5.72	0.00	0.00	12.80	12.55
WEIGHT - MEAN(gm)	0.00	76.23	104.41	127.32	141.48	182.00	183.78	211.00	169.00	0.00	111.68	114.86
- STD. DEV.	0.00	19.29	18.40	23.39	28.28	31.52	30.99	40.54	0.00	0.00	29.05	27.51

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	1	475	518	2	104	0	0
% AT STAGE	0.00	0.00	0.09	43.18	47.09	0.18	9.45	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	278	296	45	619
%	44.91	47.82	7.27	100.00
% SAMPLE WEIGHT	9.88	14.74	0.13	24.75

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	480	619	0	1099
%	43.68	56.32	0.00	100.00
MEAN WEIGHT	107.82	120.27	0.00	114.83
% SAMP. WT.	41.01	58.99	0.00	100.00

TABLE 15 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 26 - KYUQUOT SOUND
SAMPLE NUMBERS: 34
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 12/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	1	23	57	7	2	2	0	2	0	6	100
% AT AGE	0.00	1.06	24.47	60.64	7.45	2.13	2.13	0.00	2.13	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	187.00	193.91	207.32	218.00	218.50	229.00	0.00	223.00	0.00	205.50	205.64
- STD. DEV.	0.00	0.00	9.02	9.62	9.13	23.33	2.83	0.00	1.41	0.00	27.76	13.72
WEIGHT - MEAN(gm)	0.00	90.00	110.04	142.58	167.00	176.00	212.00	0.00	205.50	0.00	150.50	140.07
- STD. DEV.	0.00	0.00	16.13	24.43	25.91	70.71	21.21	0.00	26.16	0.00	64.01	34.91

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	7	87	0	6	0	0
% AT STAGE	0.00	0.00	0.00	7.00	87.00	0.00	6.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	2	58	2	62
%	3.23	93.55	3.23	100.00
% SAMPLE WEIGHT	0.44	28.30	0.10	28.83

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	38	62	0	100
%	38.00	62.00	0.00	100.00
MEAN WEIGHT	127.03	148.06	0.00	140.07
% SAMP. WT.	34.46	65.54	0.00	100.00

TABLE 15 (CONT.) PRE-FISHERY CHARTER SAMPLE SUMMARIES BY AREA

AREA: 27 - QUATSINO SOUND
SAMPLE NUMBERS: 50, 42, 46
SOURCE: PRE-FISHERY CHARTER
GEAR: HERRING SEINE
DATE: MAR 6/86 - MAR 9/86

SPECIMENS AT EACH AGE:

	AGE											
	1	2	3	4	5	6	7	8	9	10+	UNKNOWN	TOTAL
NO. AT AGE	0	6	64	172	7	4	5	7	6	0	28	299
% AT AGE	0.00	2.21	23.62	63.47	2.58	1.48	1.85	2.58	2.21	0.00	0.00	100.00
LENGTH - MEAN(mm)	0.00	164.83	193.09	202.35	208.14	215.50	225.20	226.00	233.83	0.00	200.82	201.35
- STD. DEV.	0.00	4.62	7.90	8.31	13.70	12.77	10.26	4.73	7.57	0.00	15.15	13.16
WEIGHT - MEAN(gm)	0.00	67.83	113.86	137.53	156.00	195.75	204.80	198.71	226.67	0.00	136.04	136.48
- STD. DEV.	0.00	9.20	16.73	22.21	35.50	8.77	33.28	19.18	20.58	0.00	39.49	33.69

HJORT MATURITY STAGES:

	MATURITY STAGE								
	1	2	3	4	5	6	7	8	UNKNOWN
NO. AT STAGE	0	0	0	48	251	0	0	0	0
% AT STAGE	0.00	0.00	0.00	16.05	83.95	0.00	0.00	0.00	0.00

ROE MATURITY (FEMALE):

	IMMATURE	MATURE	SPENT	TOTAL
NO.	13	143	0	156
%	8.33	91.67	0.00	100.00
% SAMPLE WEIGHT	1.97	28.56	0.00	30.53

SEX RATIO:

	MALE	FEMALE	IMMATURE	TOTAL
NO.	143	156	0	299
%	47.83	52.17	0.00	100.00
MEAN WEIGHT	125.59	146.47	0.00	136.48
% SAMP. WT.	44.01	55.99	0.00	100.00

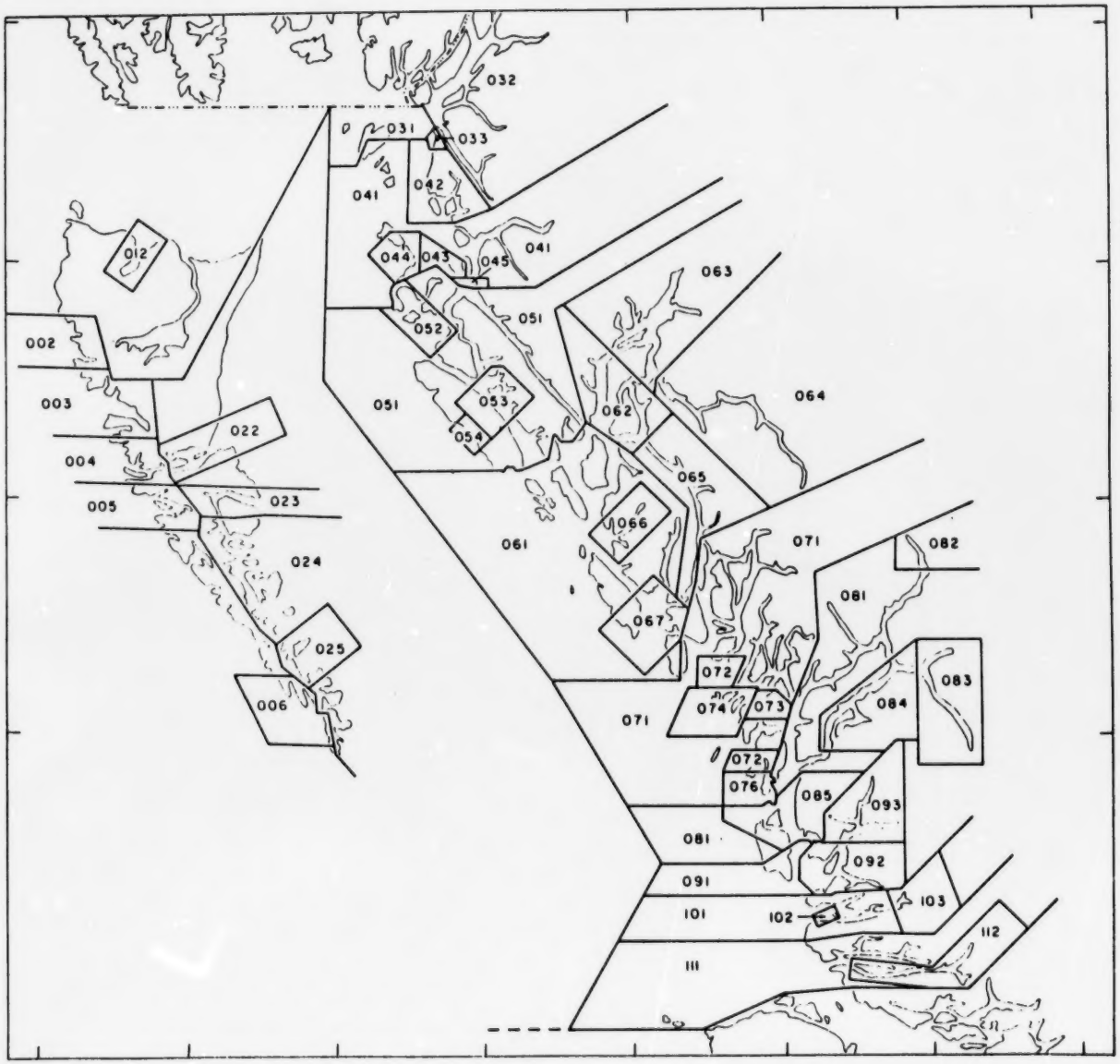

Fig. 1. Herring sections in northern British Columbia.

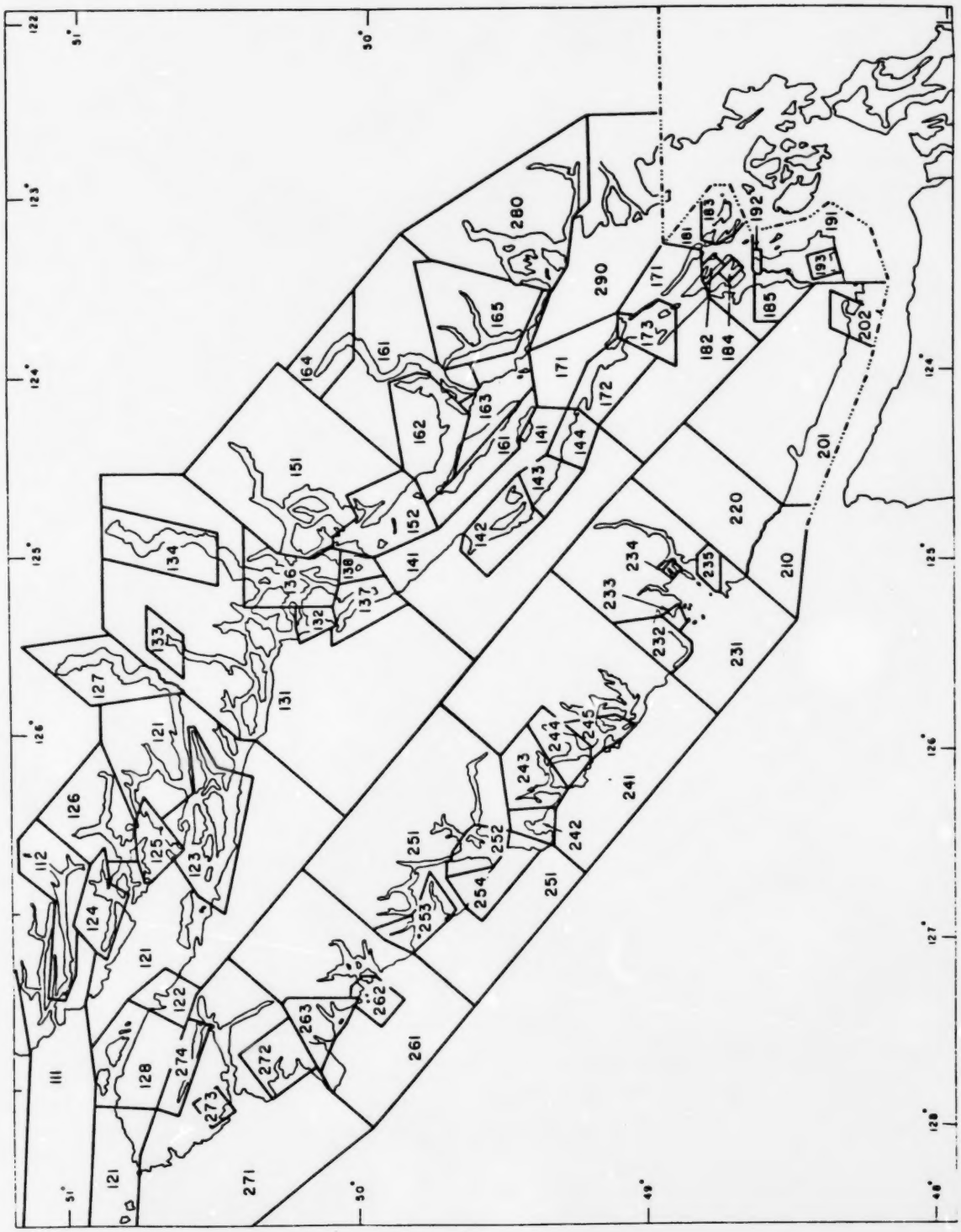

Fig. 2. Herring sections in southern British Columbia.

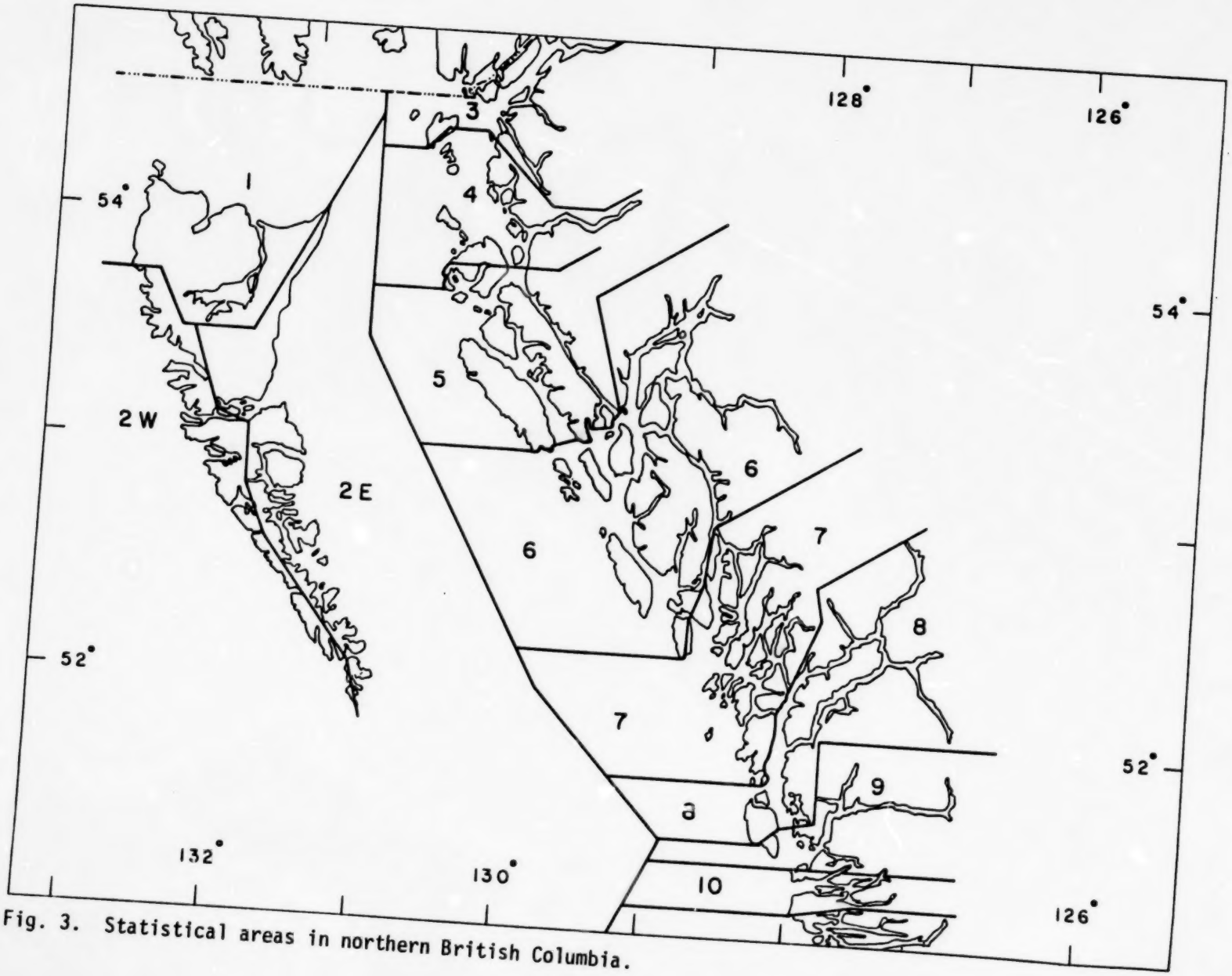

Fig. 3. Statistical areas in northern British Columbia.

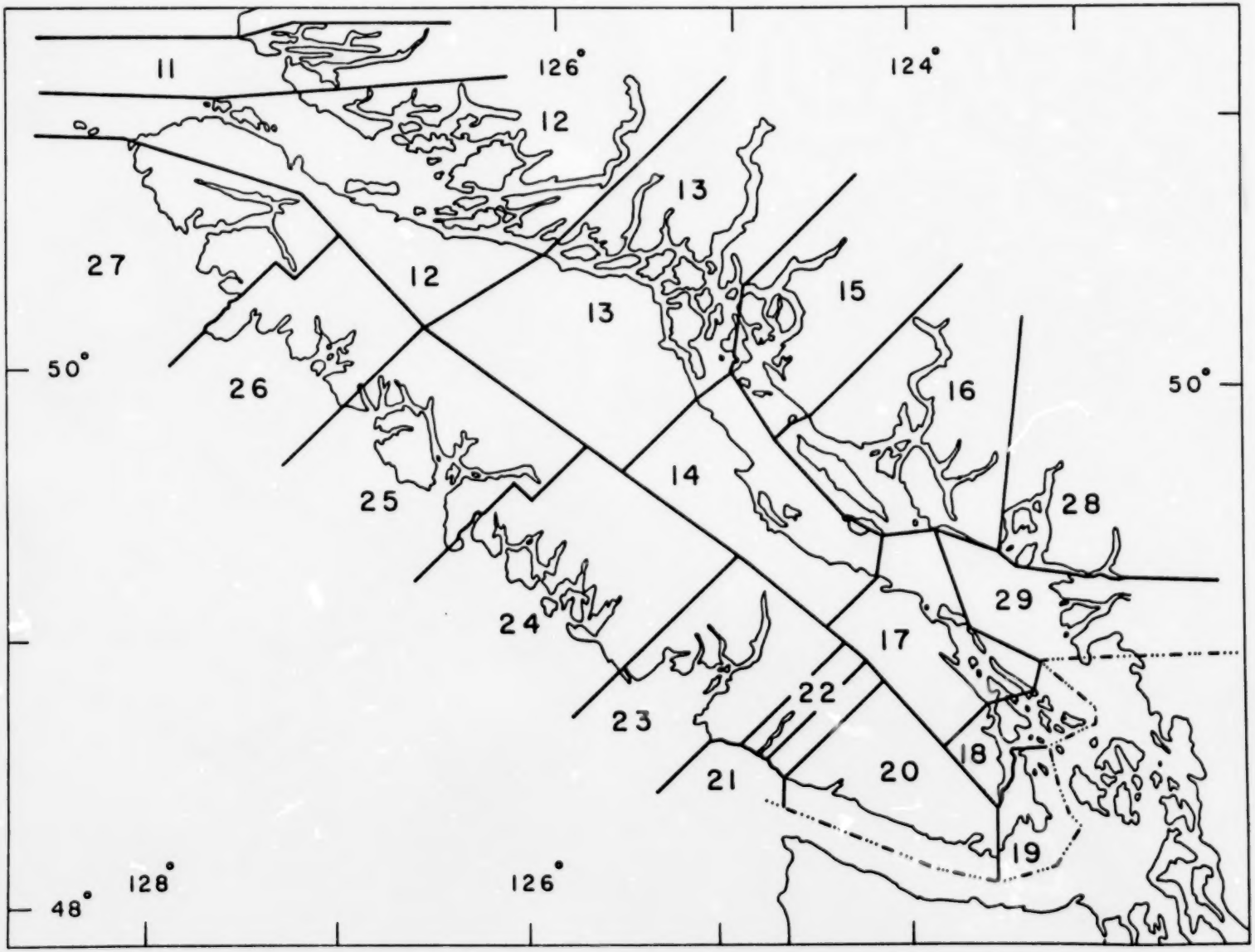

Fig. 4. Statistical areas in southern British Columbia.